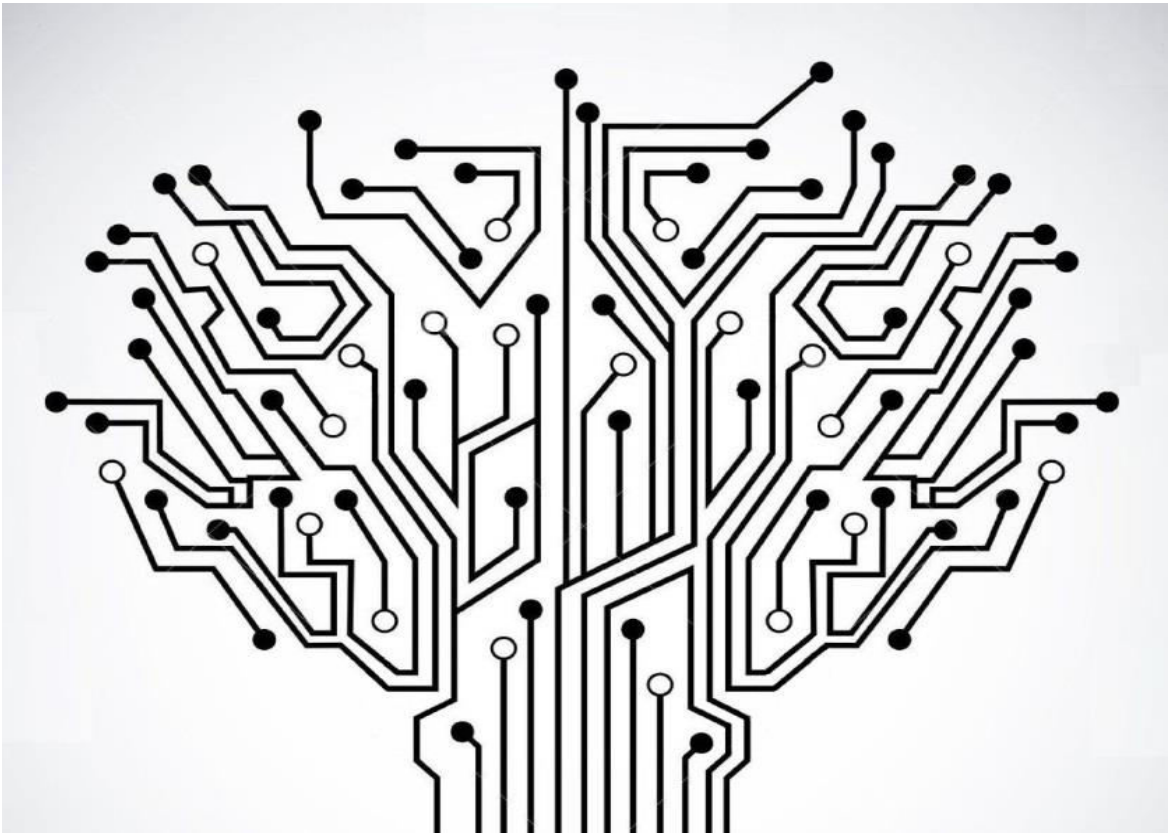
ÇOK KULLANILAN ENTEGRE DEVRELER 1



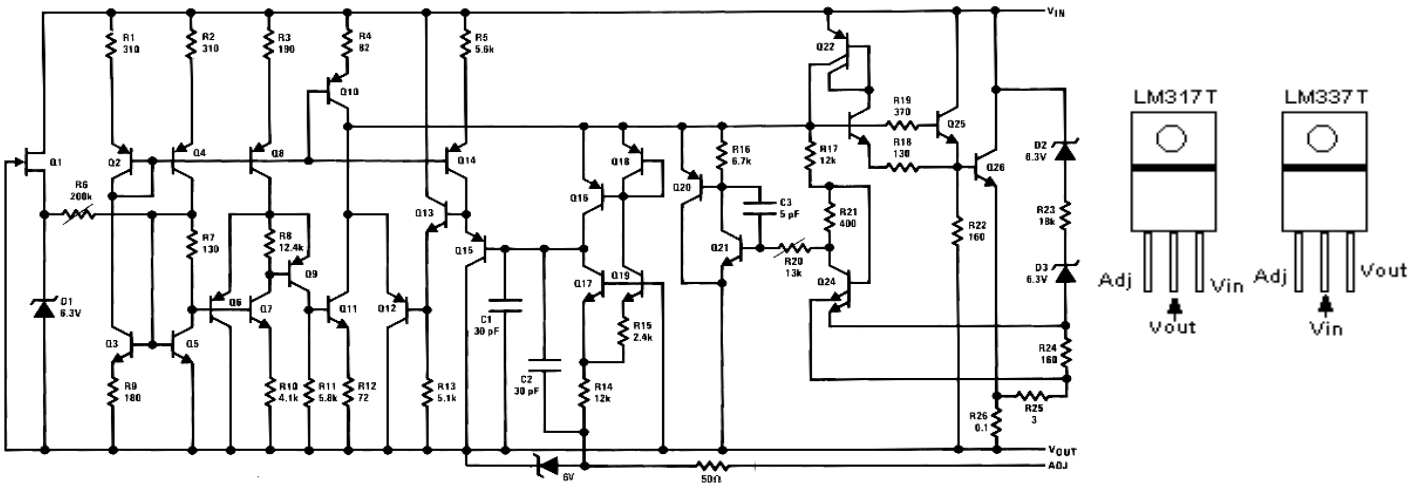
FAHRETTIN PETRİÇLİ

317

GERİLİM REGÜLATÖRÜ

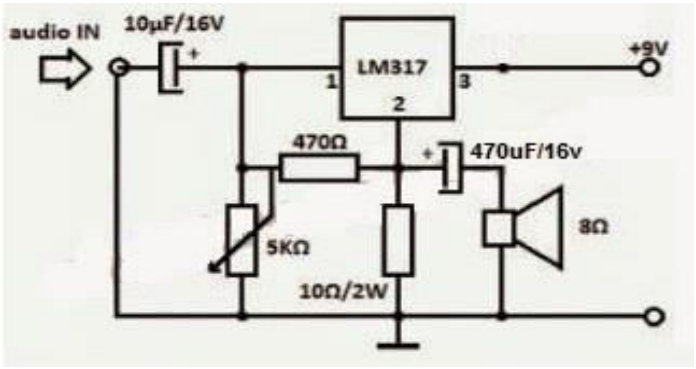


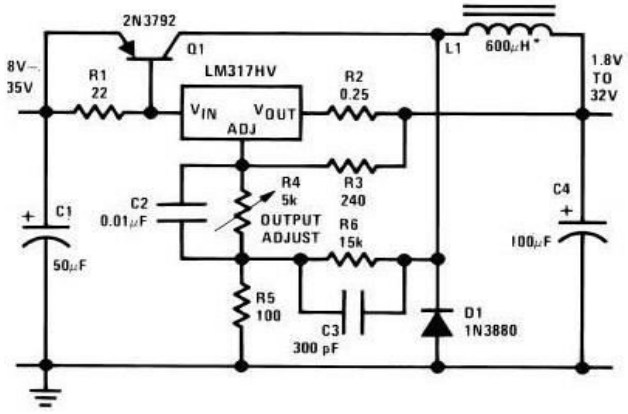
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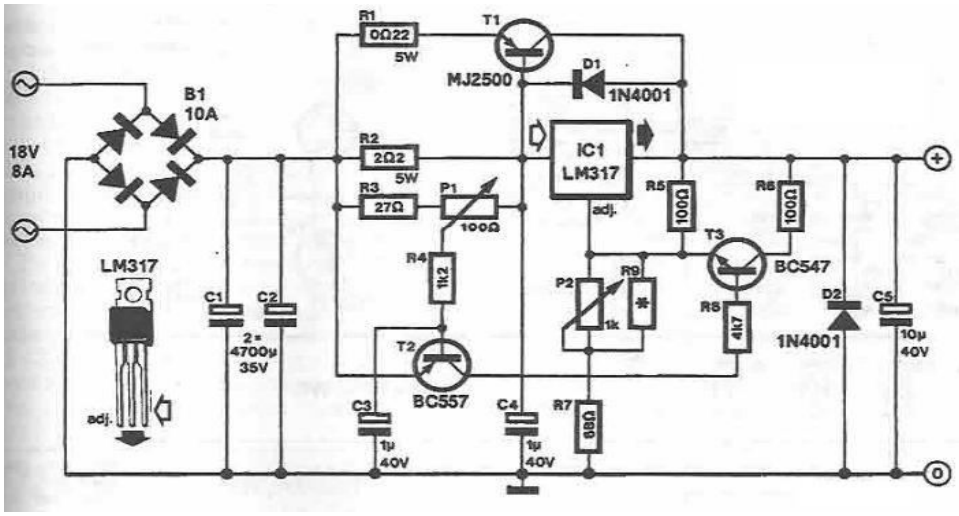
ÇEŞİTLİ DEVRE ŞEMALARI

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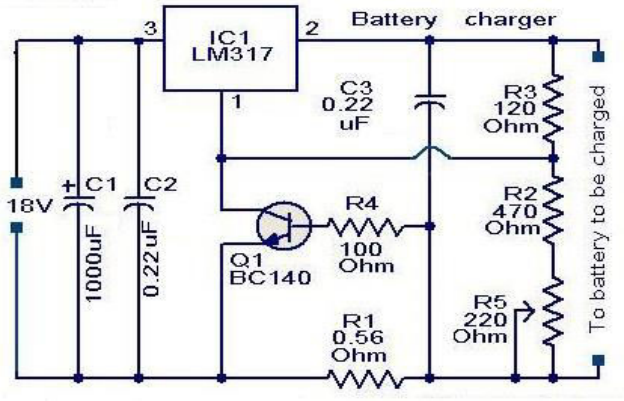




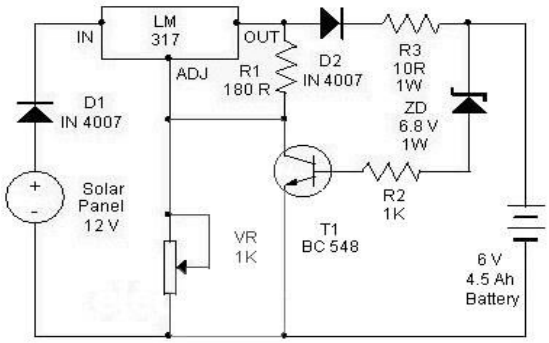
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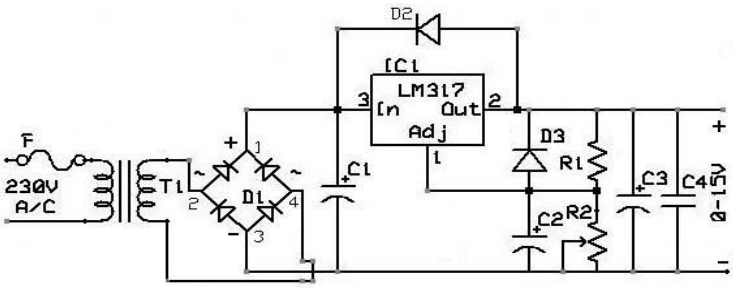


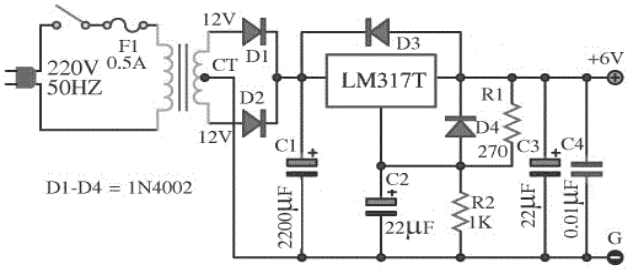
BATARYA ŞARJ CİHAZI



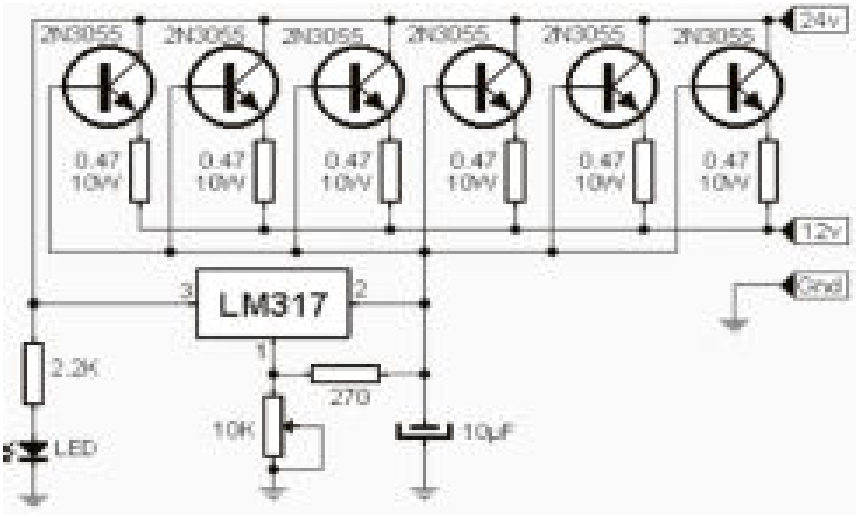
GÜNEŞ IŞIĞI İLE BATARYA ŞARJ CİHAZI



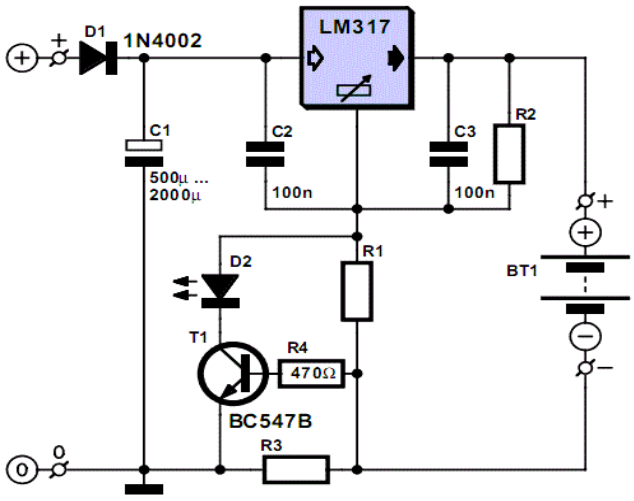




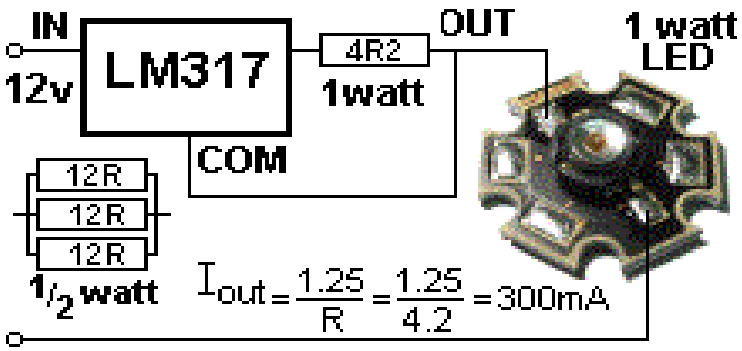
20 AMPER REGÜLATÖR



BATARYA ŞARJ CİHAZI

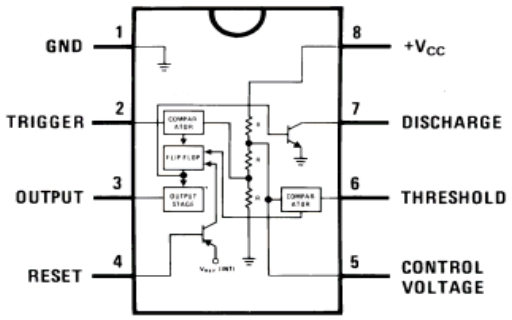


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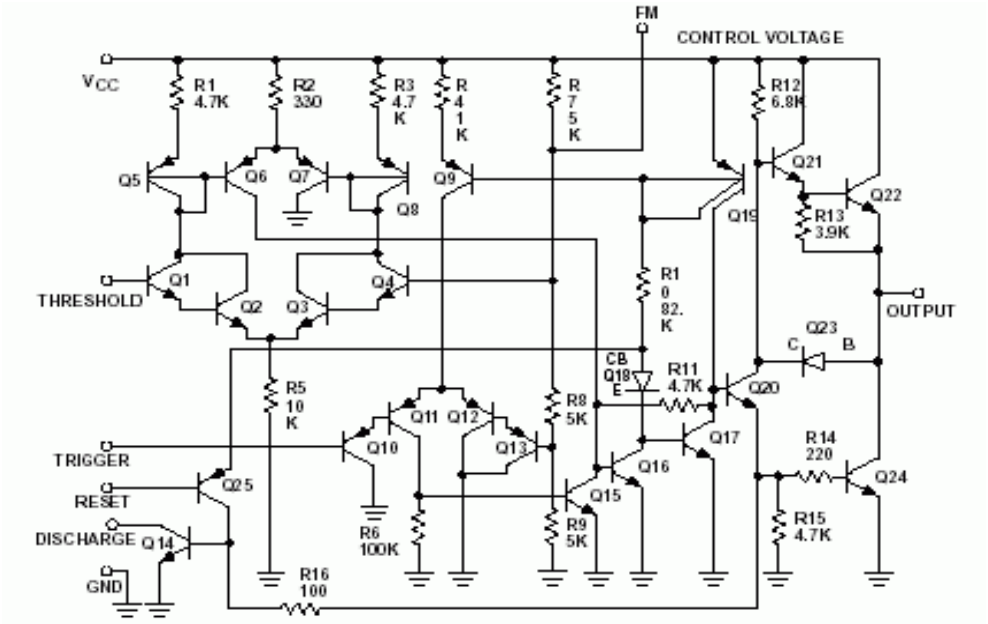


555

ZAMANLAYICI

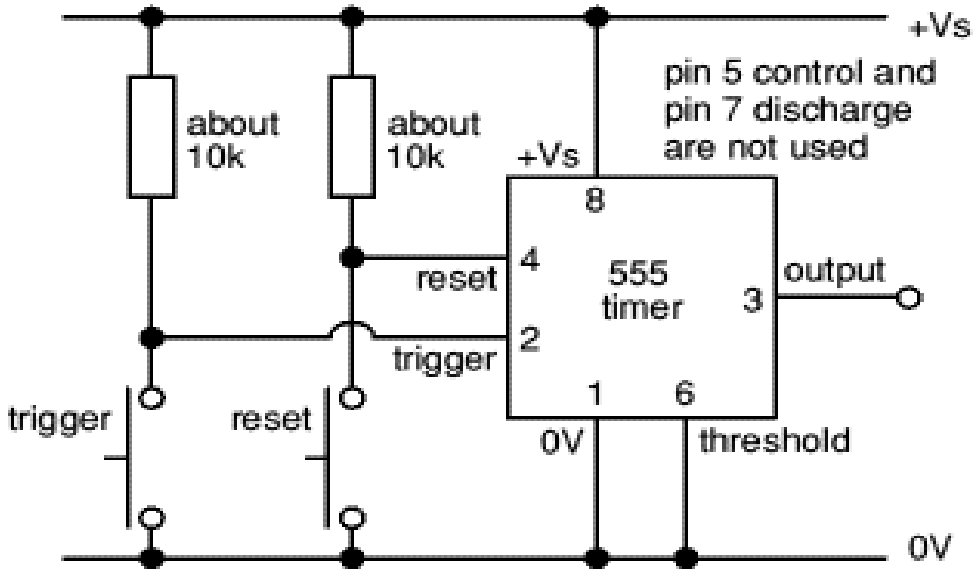


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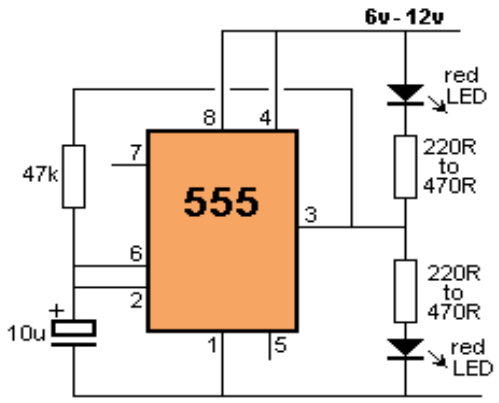


ÇEŞİTLİ DEVRE ŞEMALARI

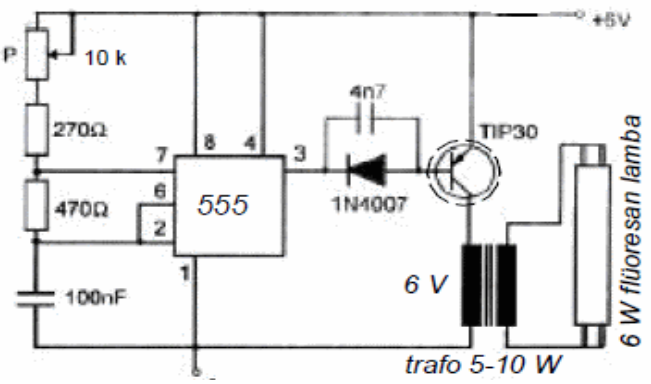
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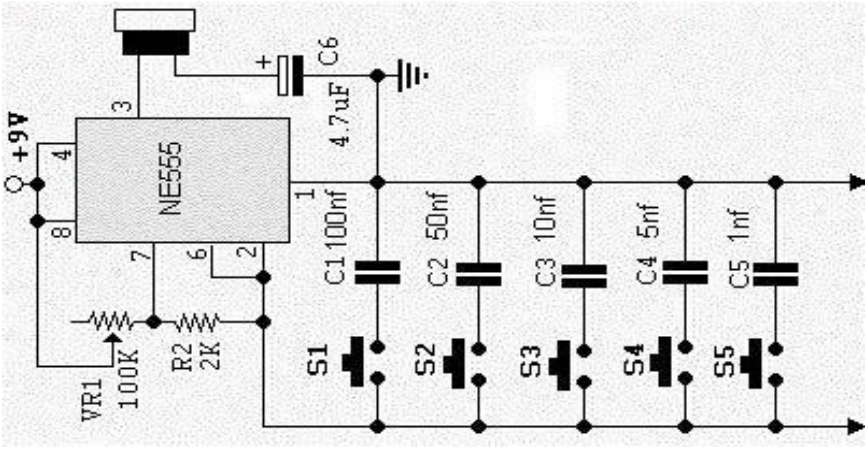
ZAMANLAMA DEVRESİ



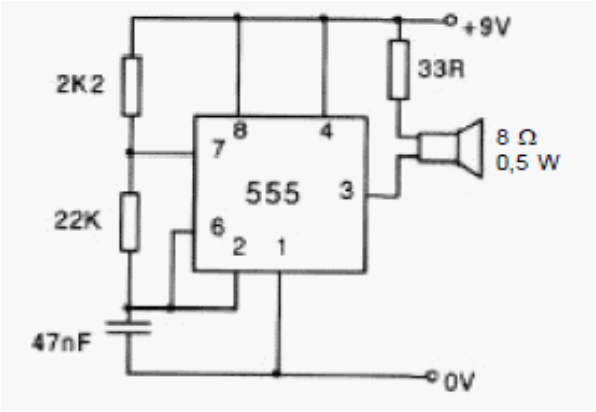
FLORESAN LAMBA İNVERTÖRÜ



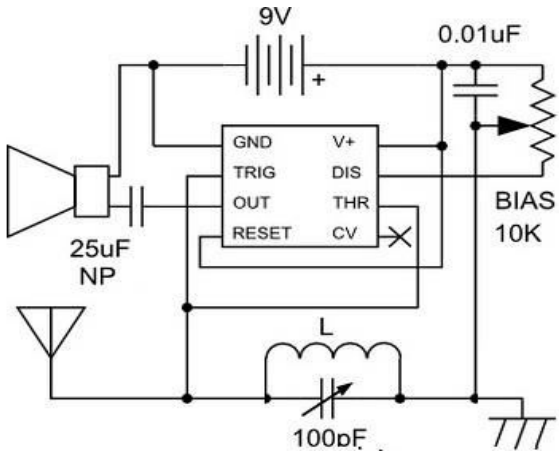
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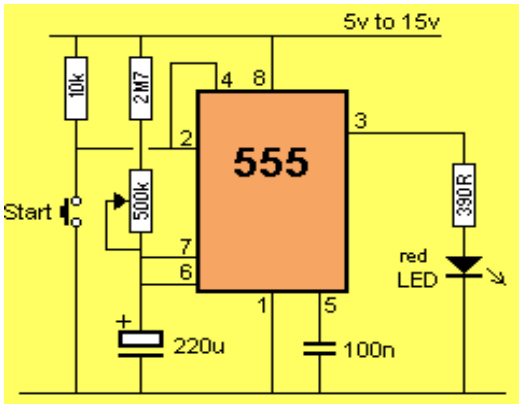
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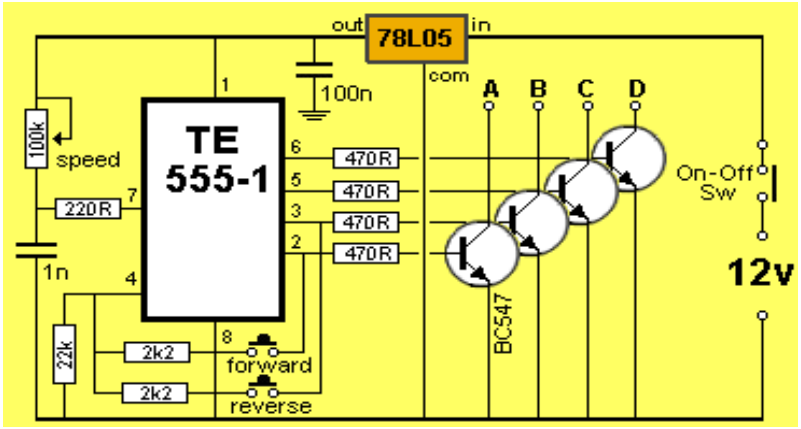
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10 DK ZAMANLAYICI

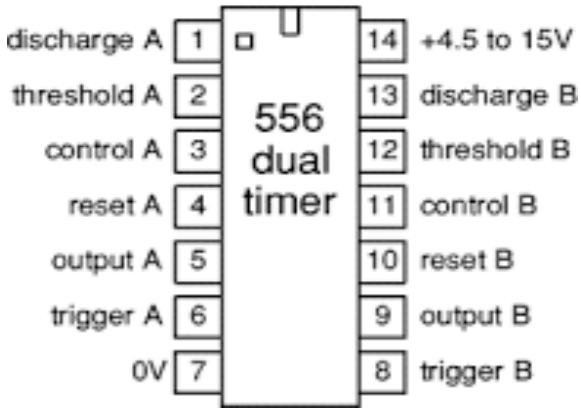


STEP MOTOR KONTROLCÜSÜ

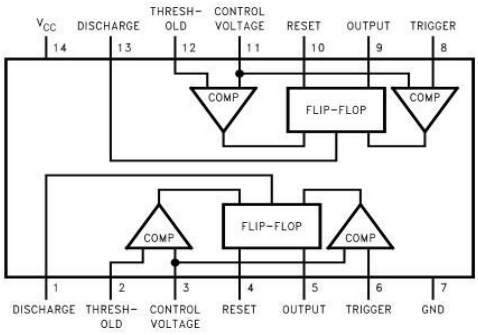


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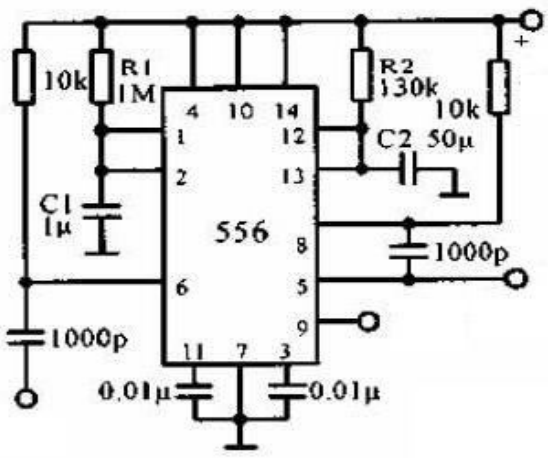


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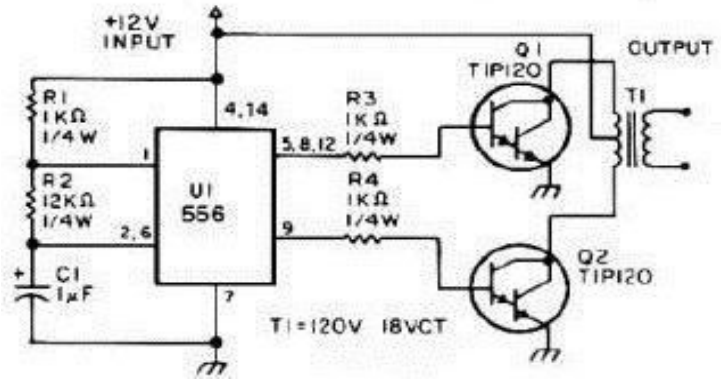


ÇEŞİTLİ DEVRE ŞEMALARI

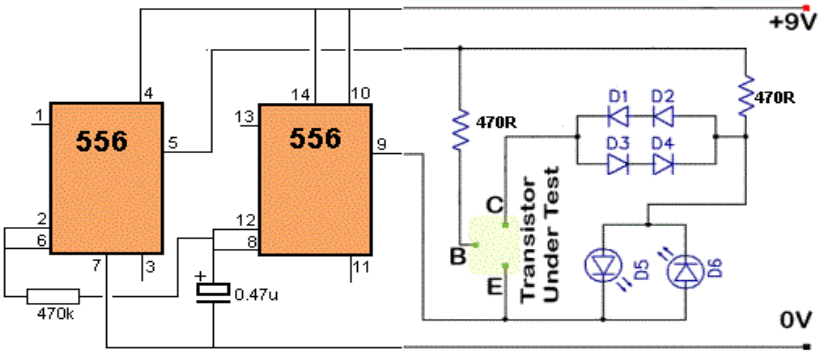
ZAMANLAMA



12 V - 220 V INVERTOR



TRANSİSTÖR TES CİHAZI

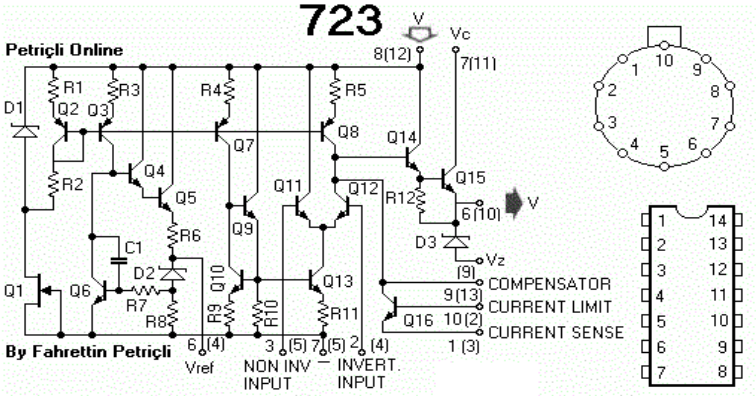


723

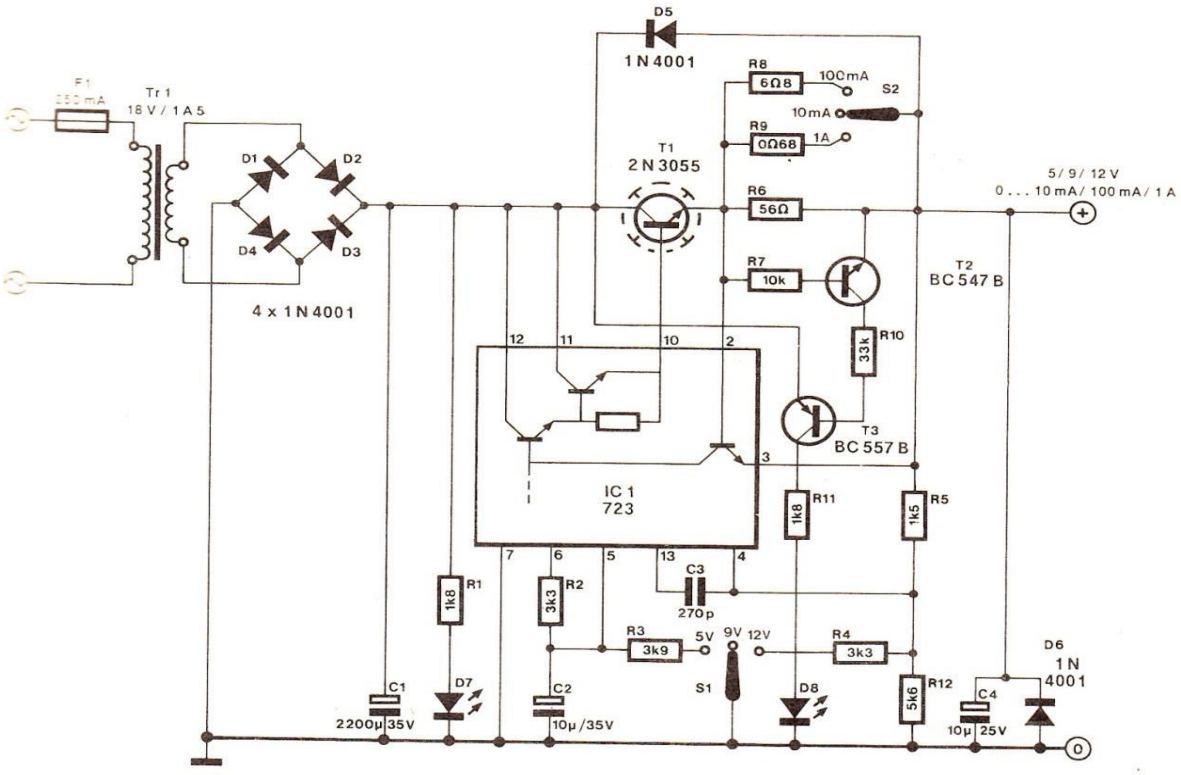
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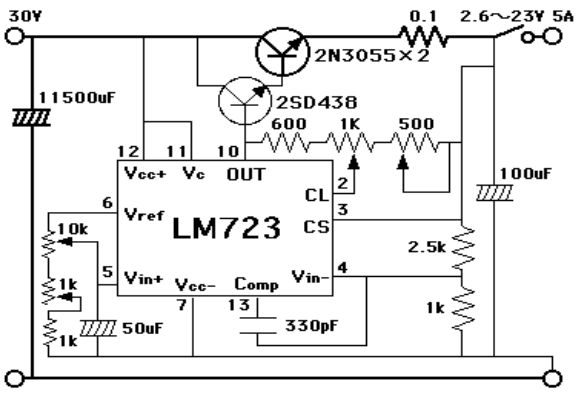


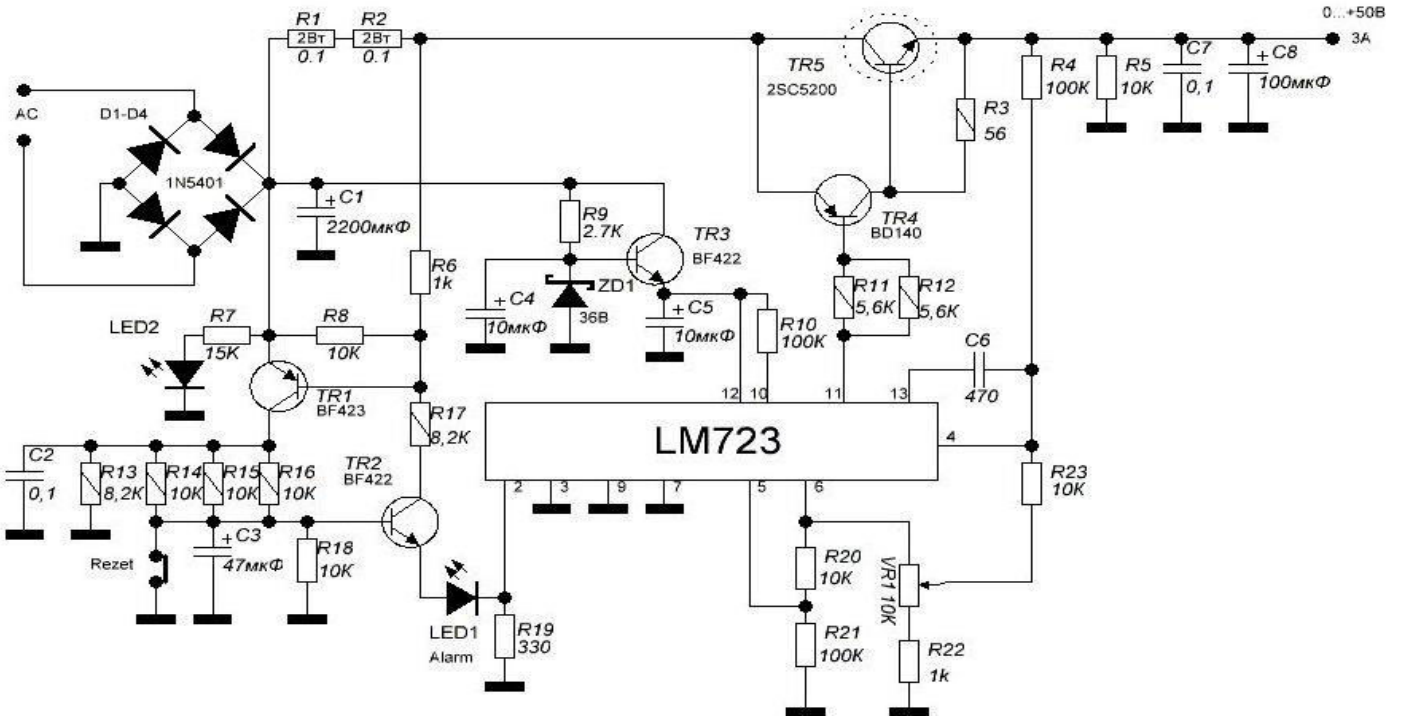
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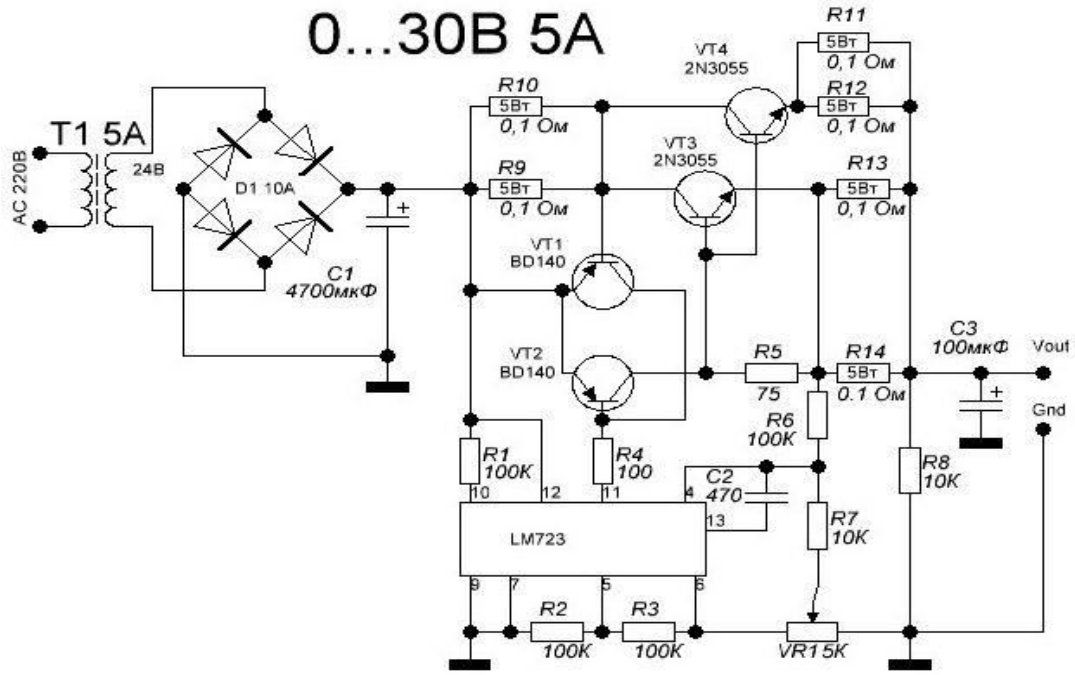


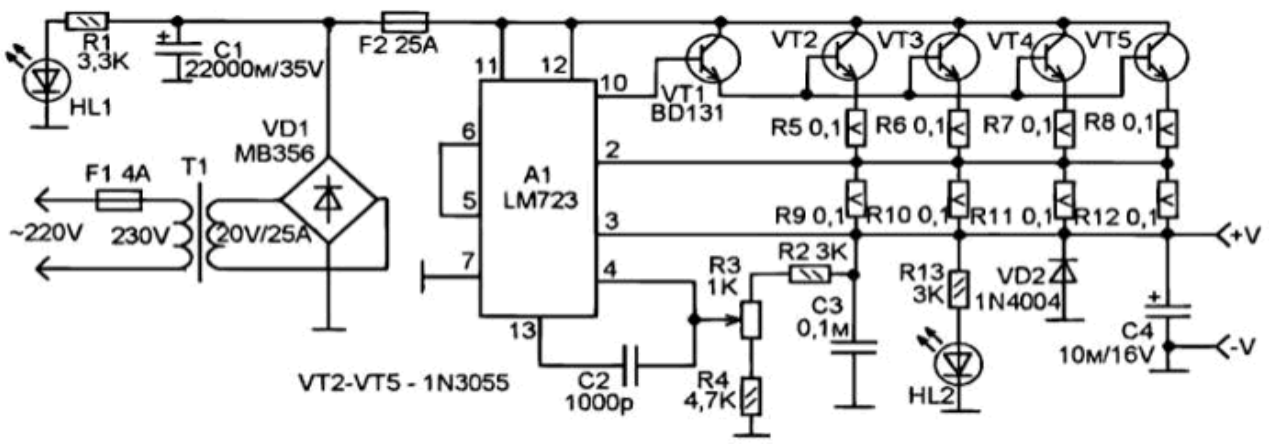
ÇEŞİTLİ DEVRE ŞEMALARI





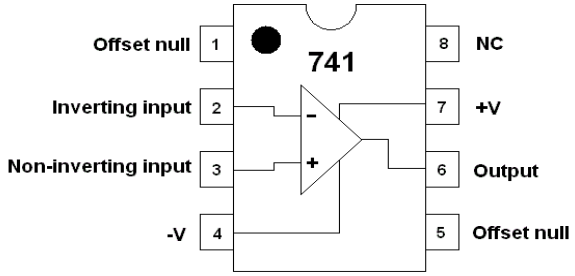

R1 2Вт 0.1
R2 2Вт 0.1
0...+50В 3А
AC
D1-D4
1N5401
C1 2200мкФ
TR5 2SC5200
R3 56
R4 100K
R5 10K
C7 0,1
C8 100мкФ
TR4 BD140
R9 2.7K
TR3 BF422
ZD1 36В
C4 10мкФ
C5 10мкФ
R6 1k
R10 100K
R11 5,6K
R12 5,6K
C6 470
LED2
R7 15K
R8 10K
TR1 BF423
R17 8,2K
LM723
C2 0,1
R13 8,2K
R14 10K
R15 10K
R16 10K
TR2 BF422
R23 10K
C3 47мкФ
R18 10K
Rezet
R20 10K
VR1 10K
R21 100K
R22 1k
LED1 Alarm
R19 330


0...30В 5А
T1 5A
AC 220В
24В
D1 10A
C1 4700мкФ
R11 5Вт 0,1 Ом
VT4 2N3055
R10 5Вт 0,1 Ом
R12 5Вт 0,1 Ом
VT3 2N3055
R9 5Вт 0,1 Ом
R13 5Вт 0,1 Ом
VT1 BD140
VT2 BD140
R5 75
R14 5Вт 0.1 Ом
C3 100мкФ
Vout
Gnd
R6 100K
R1 100K
R4 100
C2 470
R8 10K
LM723
R7 10K
R2 100K
R3 100K
VR1 5K

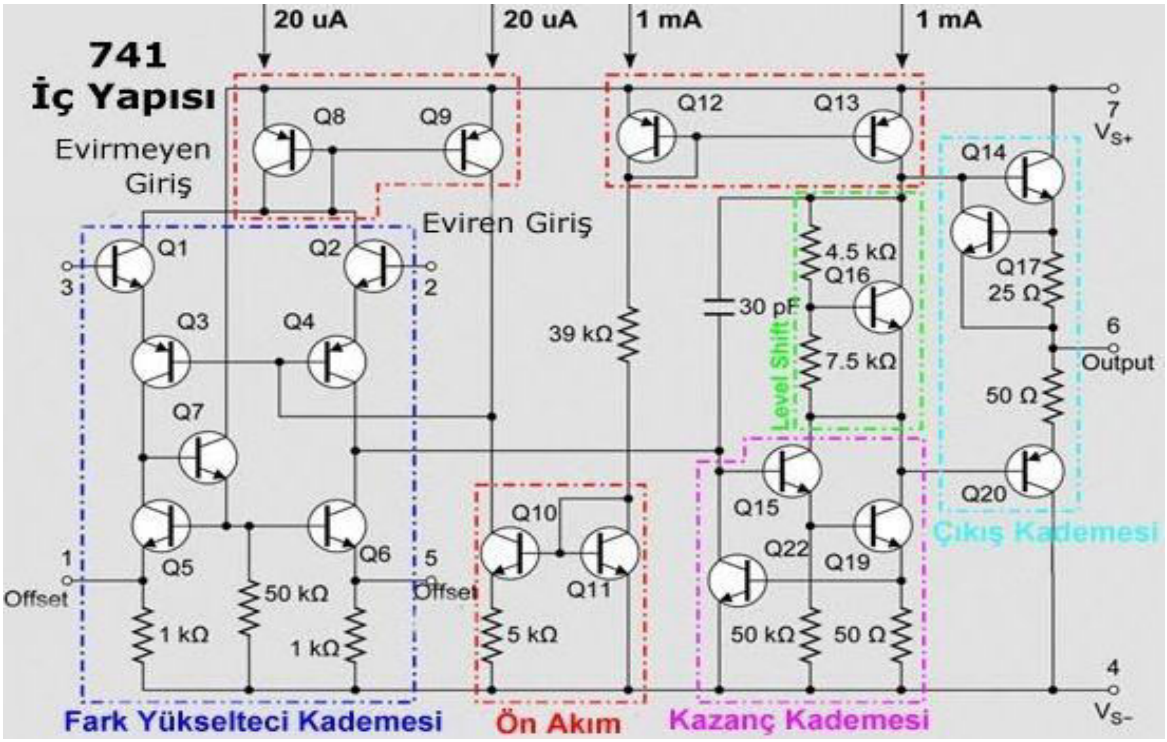

R1 3,3K
C1 22000м/35V
F2 25A
HL1
VD1 MB356
F1 4A
T1
~220V
230V
20V/25A
A1 LM723
VT1 BD131
VT2
VT3
VT4
VT5
R5 0,1
R6 0,1
R7 0,1
R8 0,1
R9 0,1
R10 0,1
R11 0,1
R12 0,1
+V
R2 3K
R3 1K
R13 3K
VD2 1N4004
C3 0,1м
C4 10м/16V
-V
HL2
VT2-VT5 - 1N3055
C2 1000p
R4 4,7K

741

İŞLEM KUVVETLENDİRİCİ

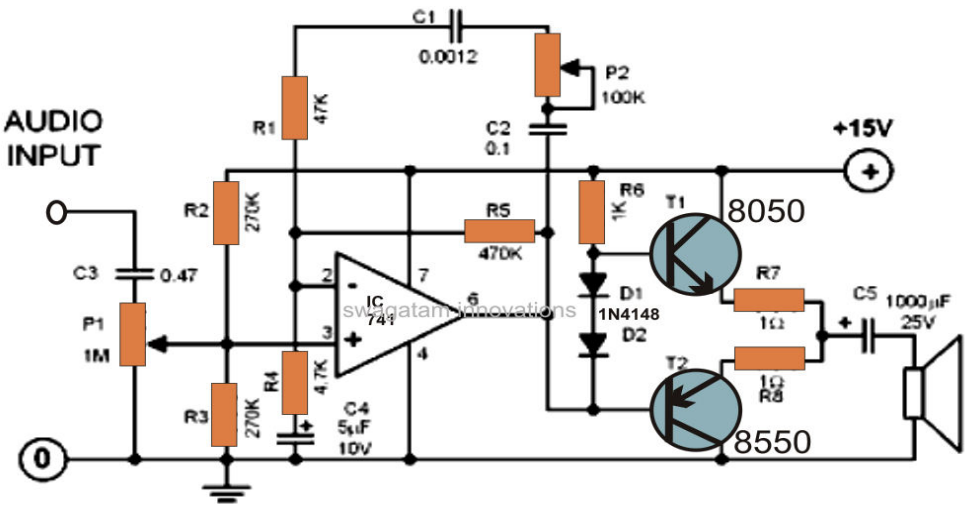


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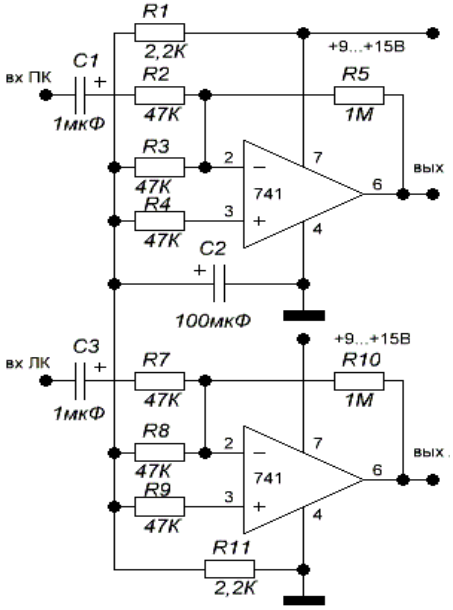


ÇEŞİTLİ DEVRE ŞEMALARI

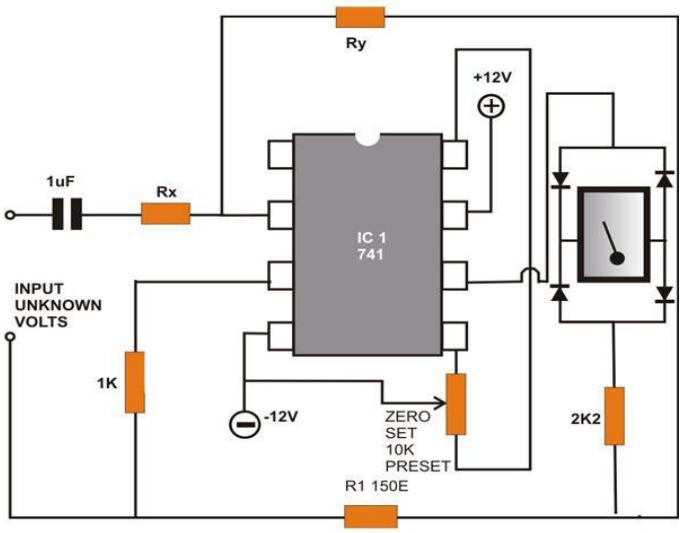
AMPLİFİKATÖR



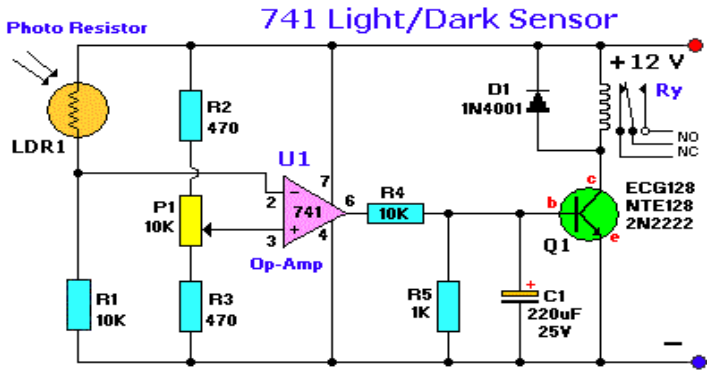
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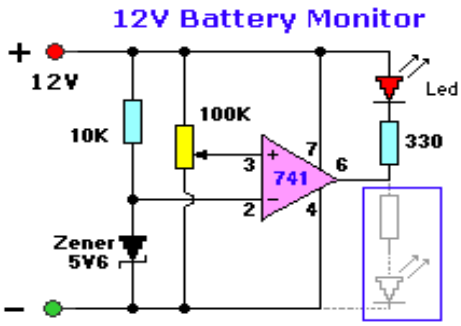
MULTİMETRE

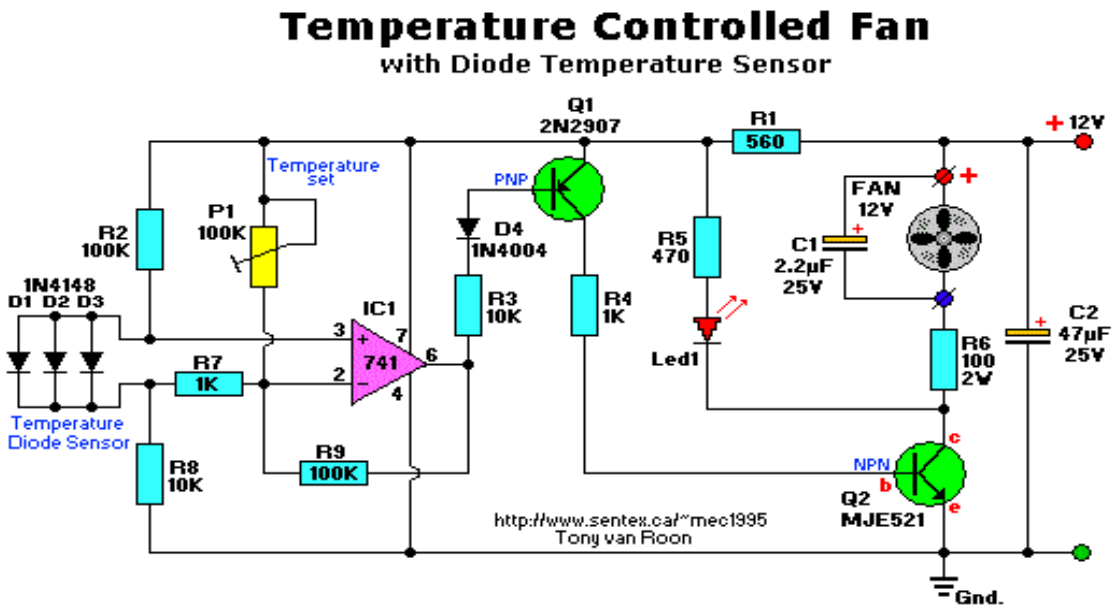


IŞIK SENSÖRÜ



BATARYA MONİTÖRÜ





4558

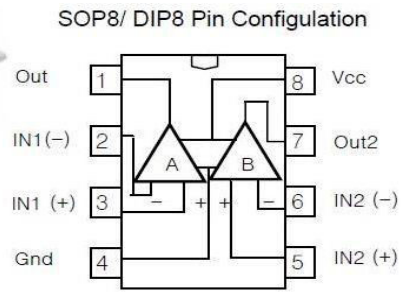
İKİLİ
İŞLEM KUVVETLENDİRİCİ



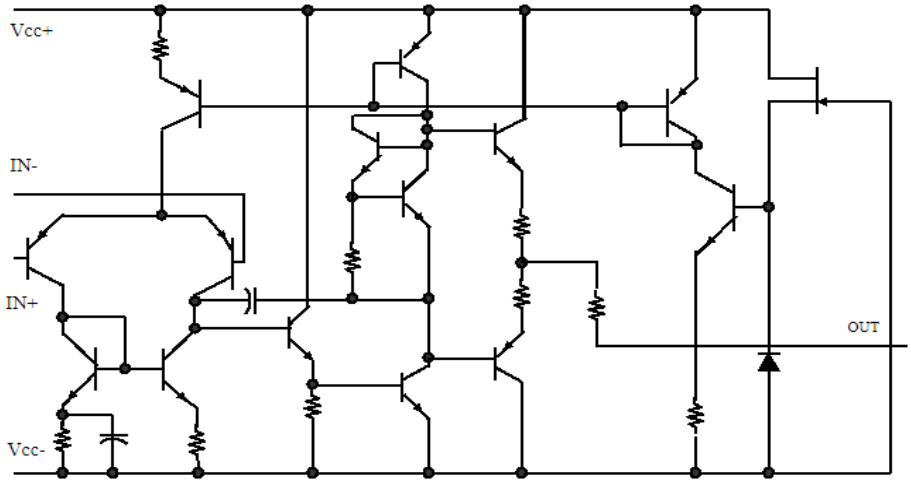
SOP−8 PKG



DIP−8 PKG

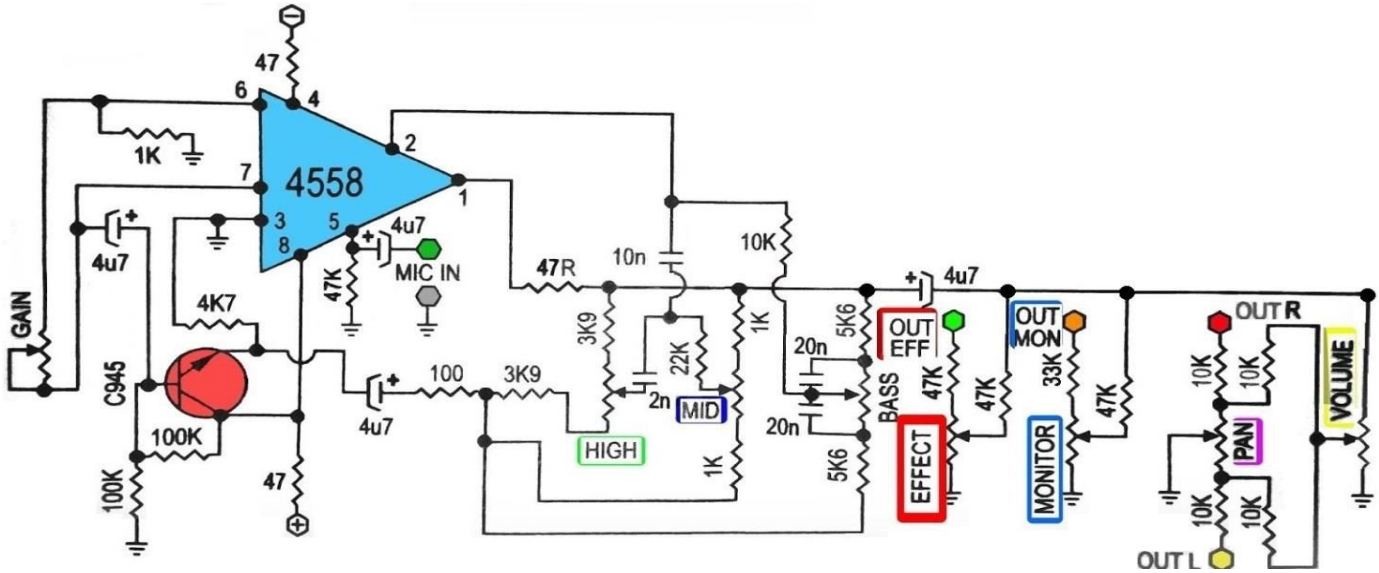


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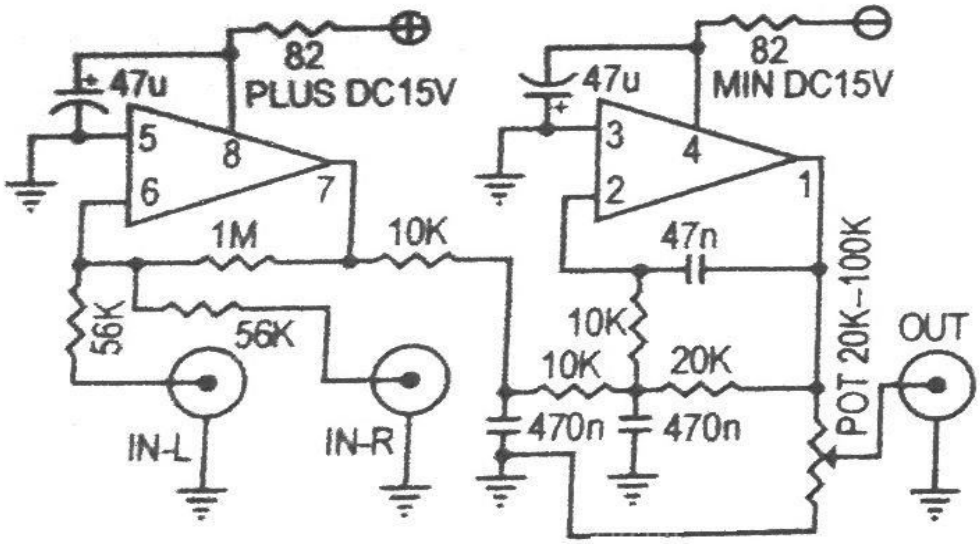


ÇEŞİTLİ DEVRE ŞEMALARI

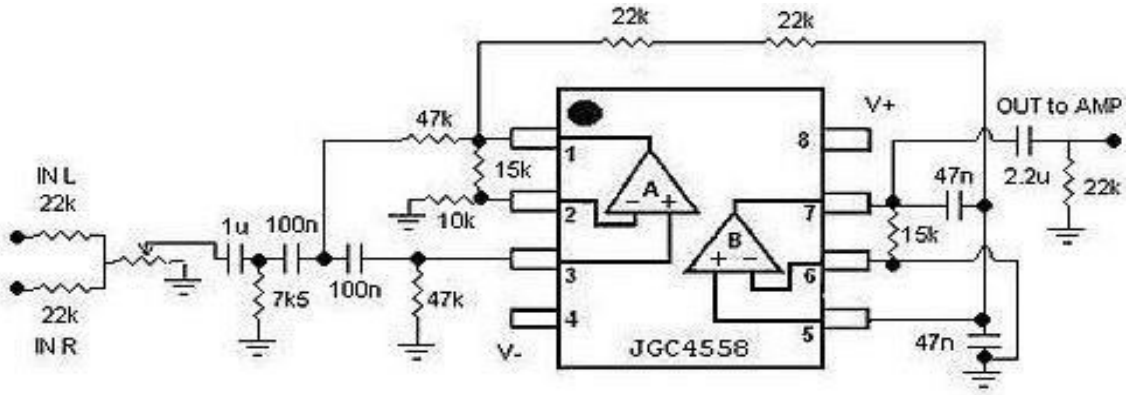
PREAMPLİFİKATÖR



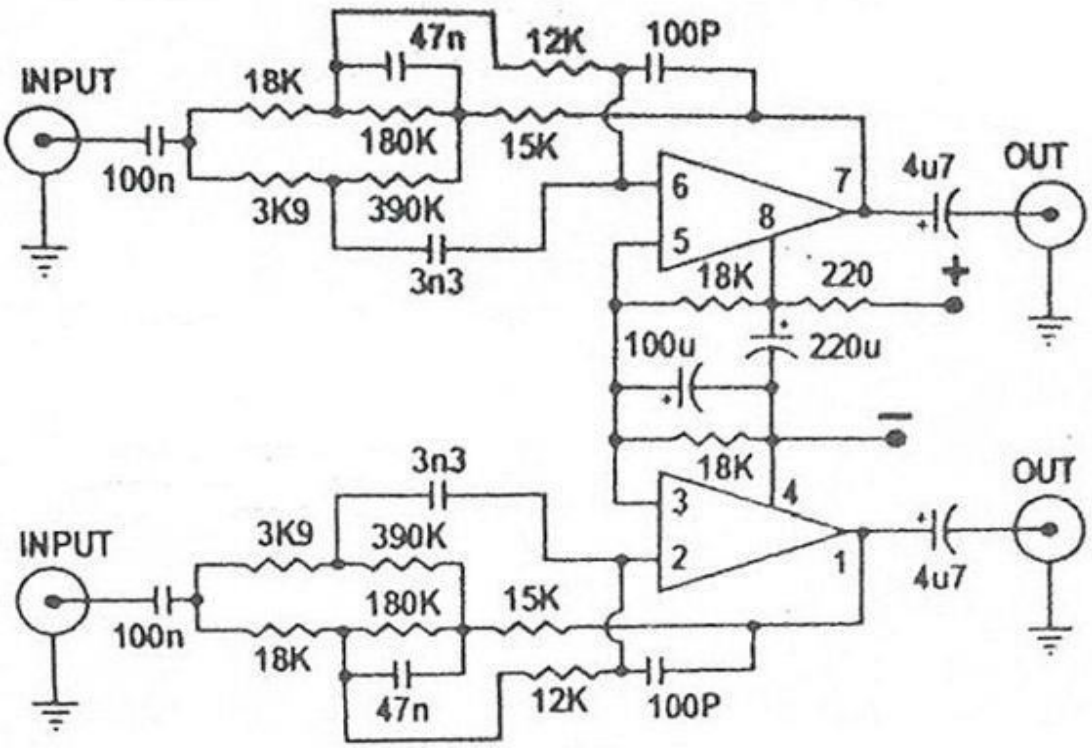
SUBWOOFER



SUBWOOFER

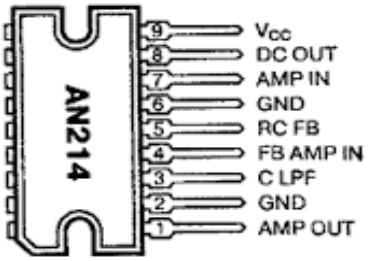


PREAMOLİFİKATÖR

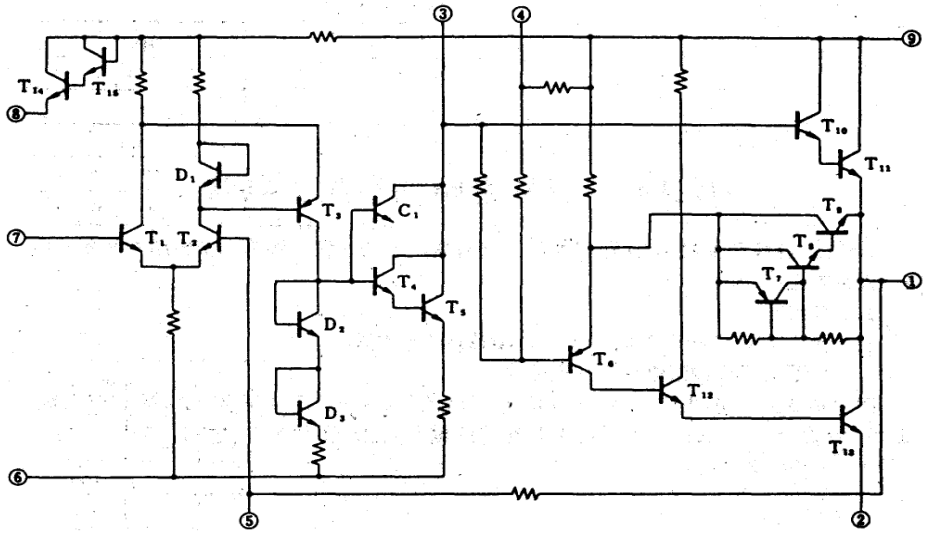


AN214

4.4 WATT
MONO AMPLİFİKATÖR

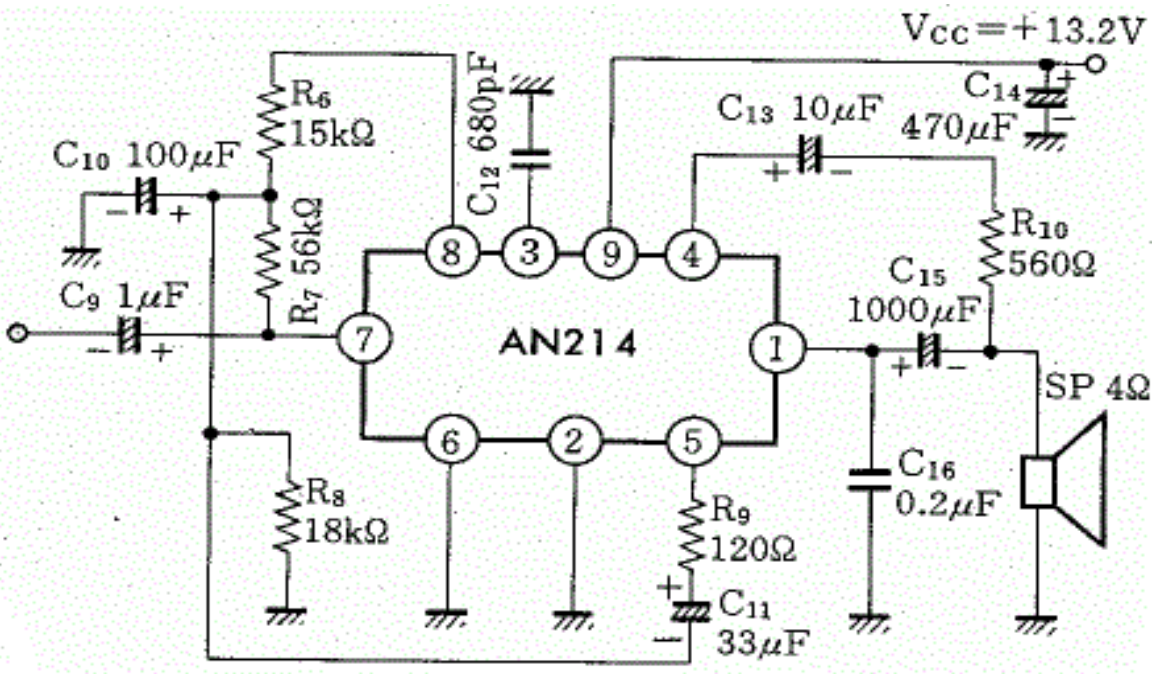


İÇ YAPISI

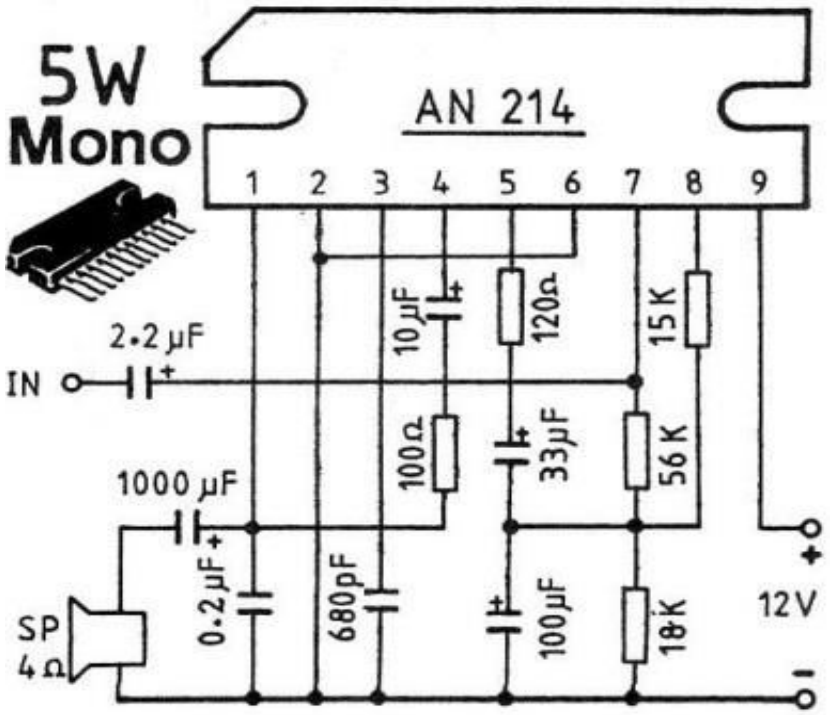


ÇEŞİTLİ DEVRE ŞEMALARI

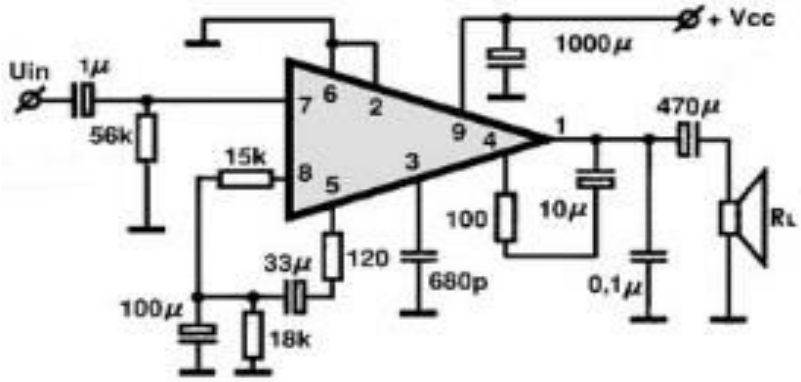
4.4 WATT MONO AMPLİFİKATÖR



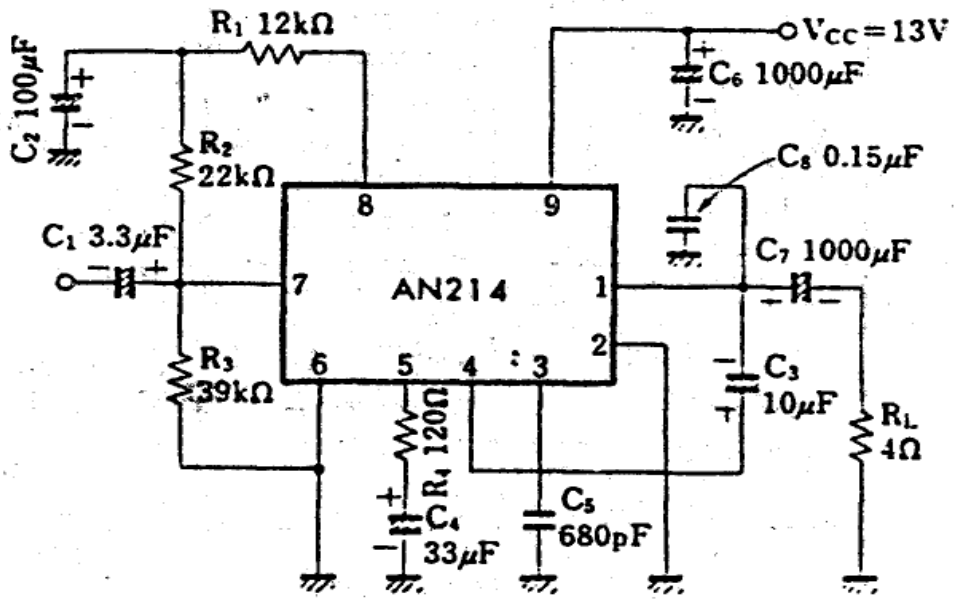
4.4 WATT MONO AMPLİFİKATÖR



4.4 WATT MONO AMPLİFİKATÖR



4.4 WATT MONO AMPLİFİKATÖR



AN6884

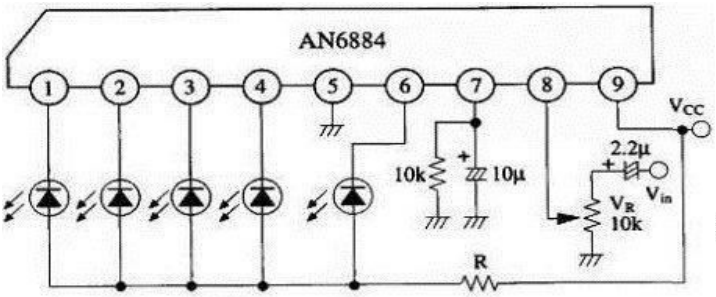
5 LEDLİ

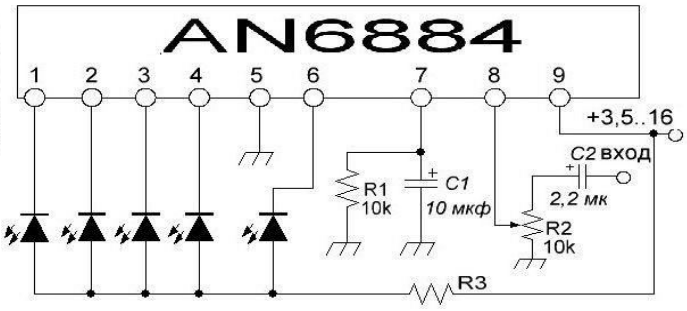
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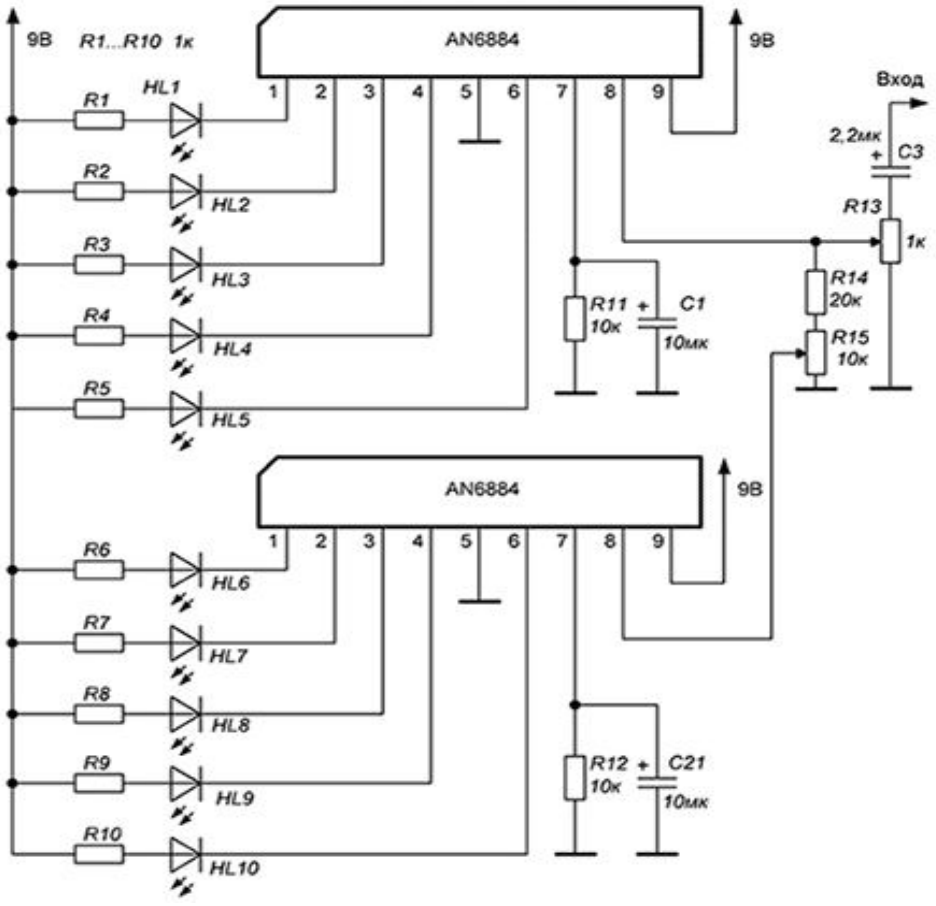


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



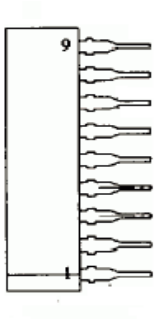




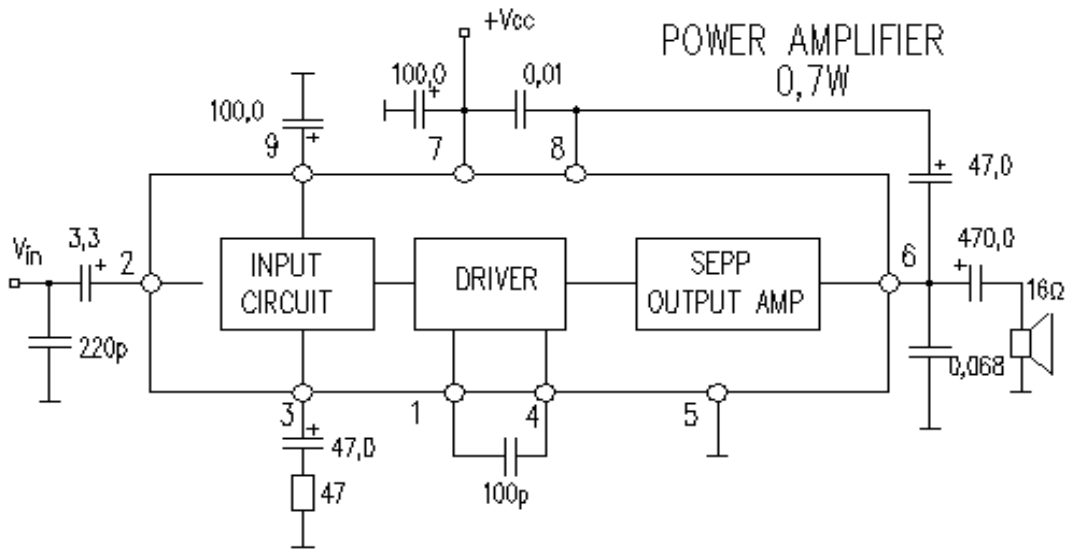
AN7112

0.7 WATT
MONO AMPLİFİKATÖR

1	Phase Comp
2	Input
3	N.F.B.
4	Phase Comp
5	GND
6	Output
7	Vcc
8	Bootstrap
9	Ripple Filter



İÇ YAPISI



VCC MAX = 14V
VCC TYP = 9V
VCC RNG = 4...14V

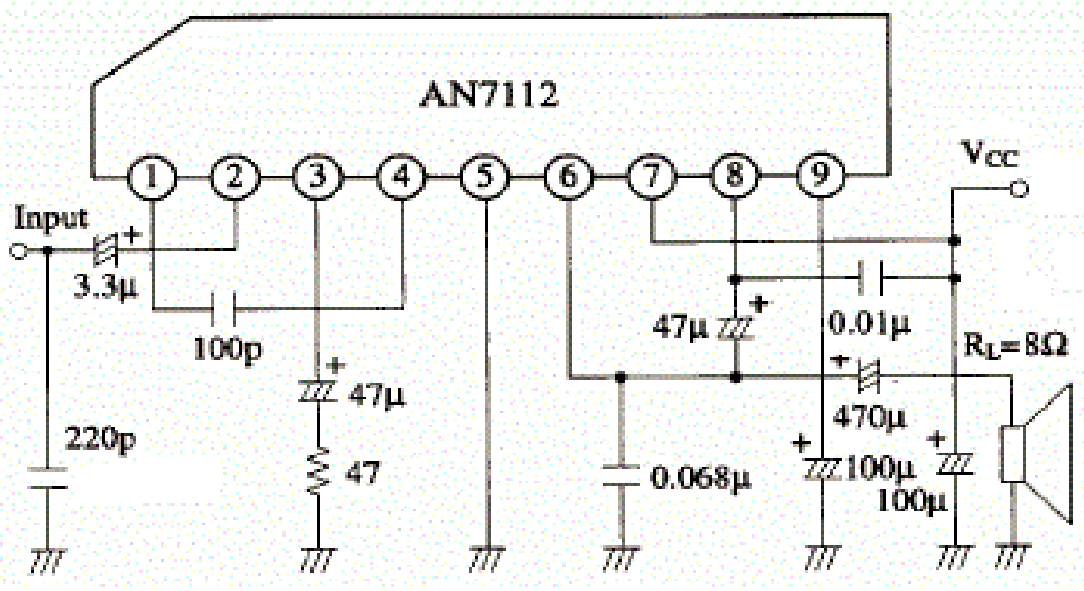
PO = 0,7W
RL = 16 Ohm
TDH = 10%

ICCO TYP = 17mA
ICCO MAX = 23mA
IMAX = –

RIN = 15k
Gain = 50dB
Noise = 1,3mkV

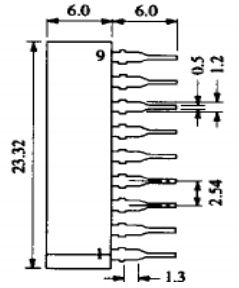
ÇEŞİTLİ DEVRE ŞEMALARI

0.5 WATT MONO AMPLİFİKATÖR

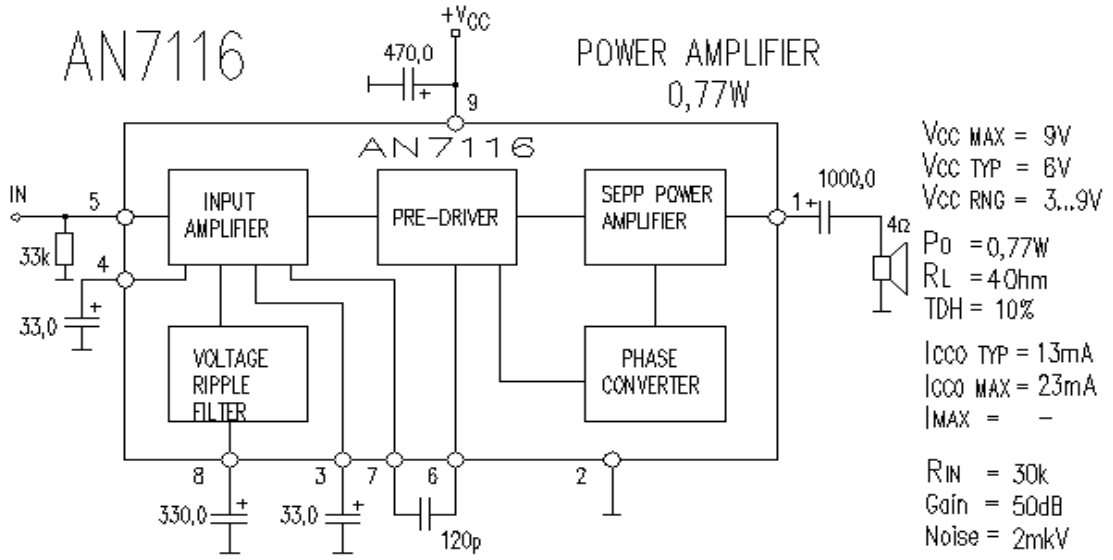


AN7116

0.77 WATT
MONO AMPLİFİKATÖR

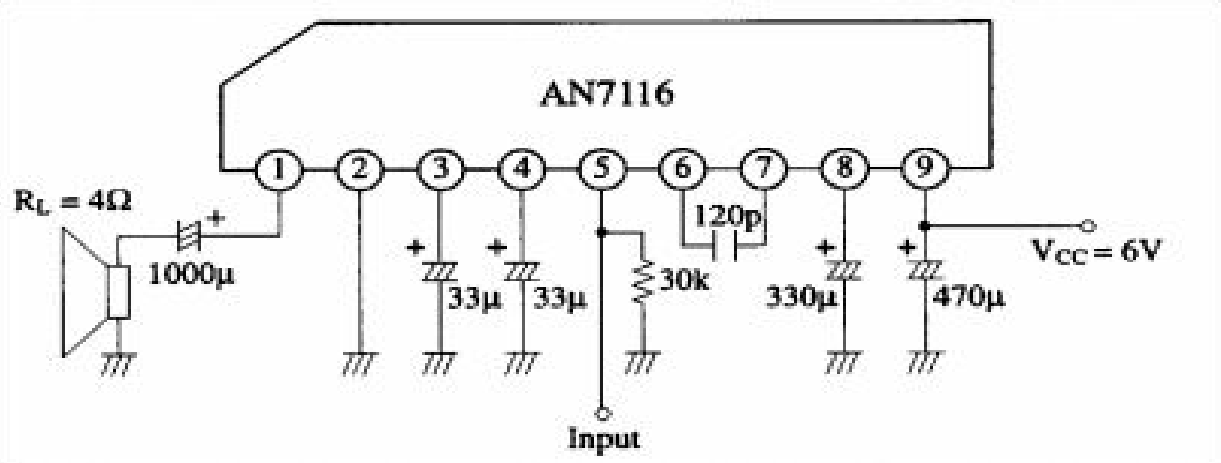


İÇ YAPISI



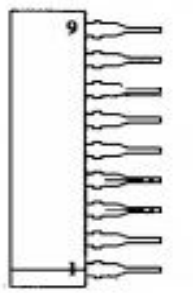
ÇEŞİTLİ DEVRE ŞEMALARI

0.77 WATT MONO AMPLİFİKATÖR

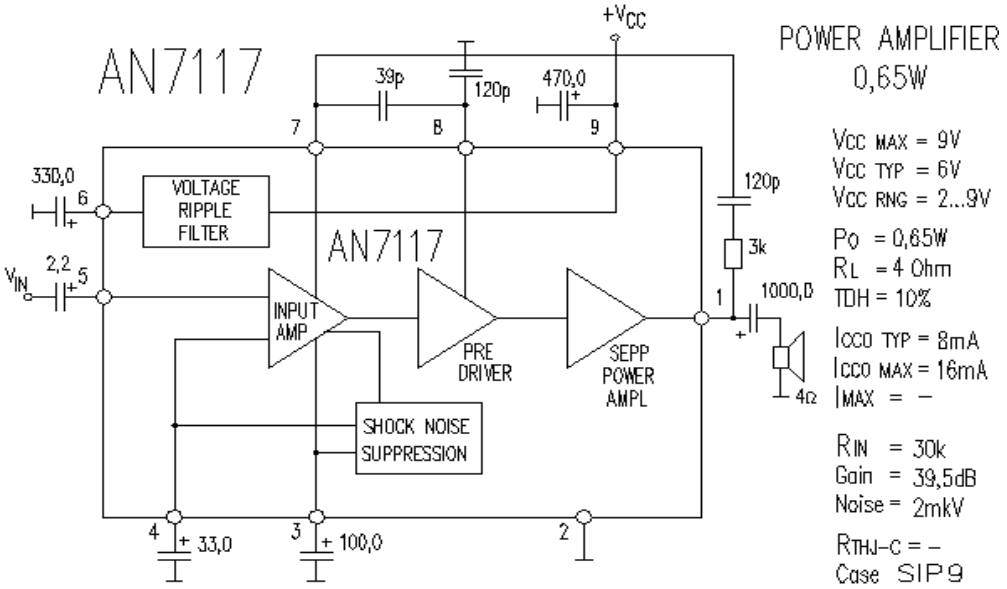


AN7117

0.65 WATT
MONO AMPLİFİKATÖR

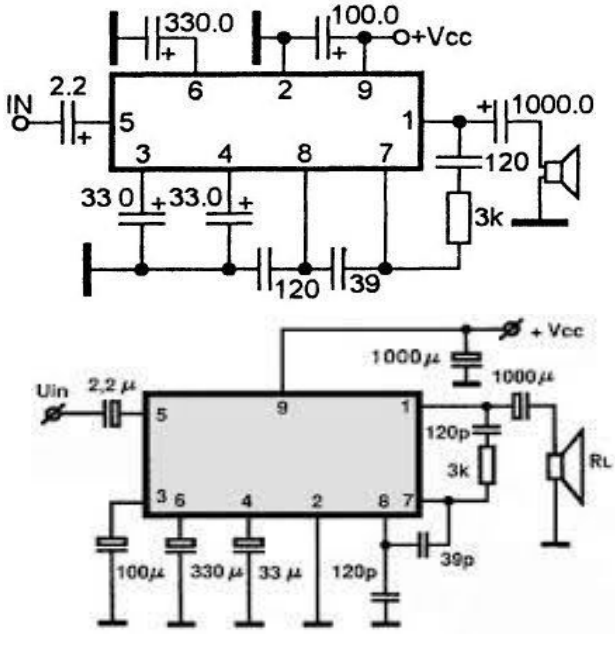


İÇ YAPISI

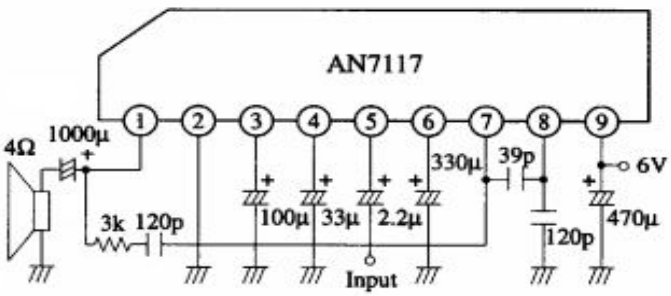


ÇEŞİTLİ DEVRE ŞEMALARI

0.65 WATT MONO AMPLİFİKATÖR

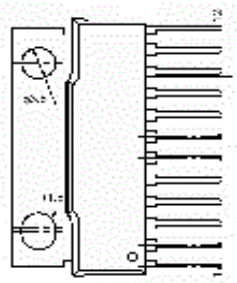


1 WATT MONO AMPLİFİKATÖR

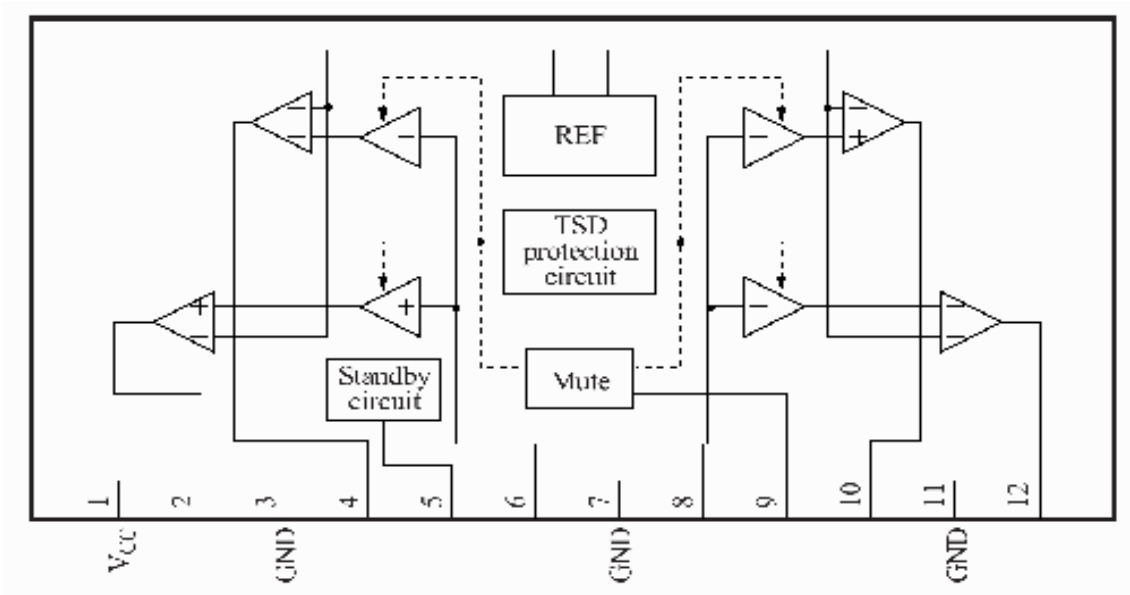


AN7125

13.5 WATT
MONO AMPLİFİKATÖR

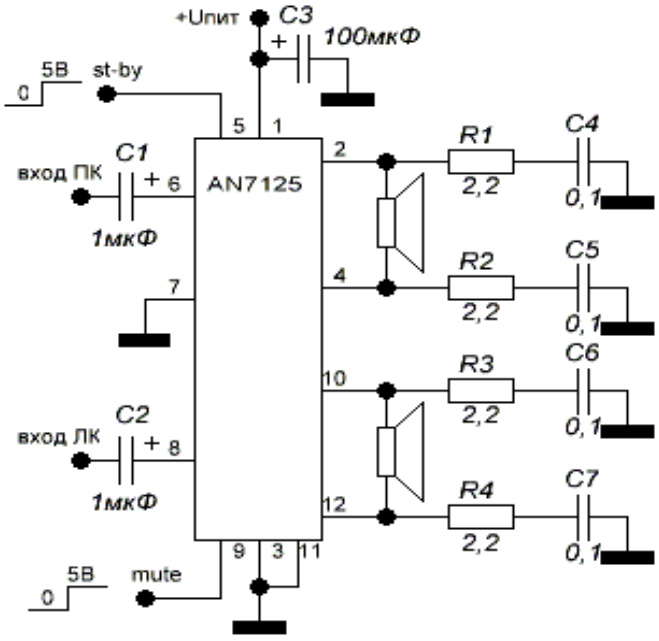


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

13.5 WATT MONO AMPLİFİKATÖR



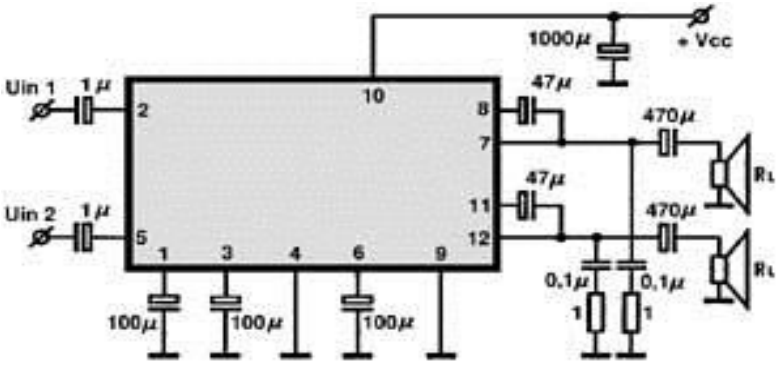
AN7143

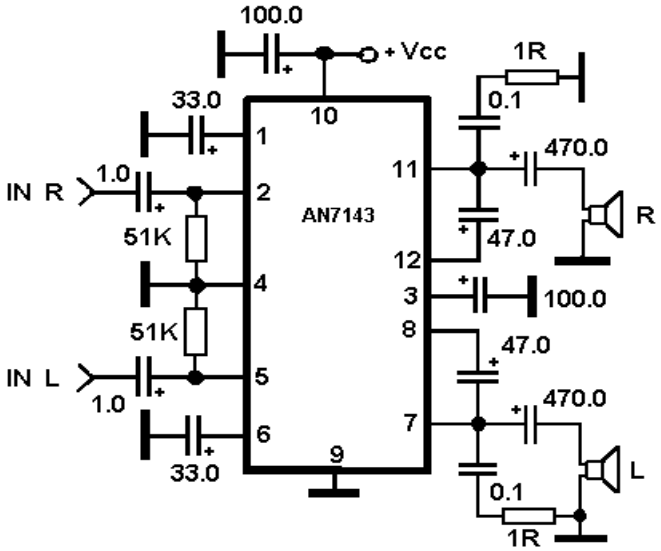
2 WATT
STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



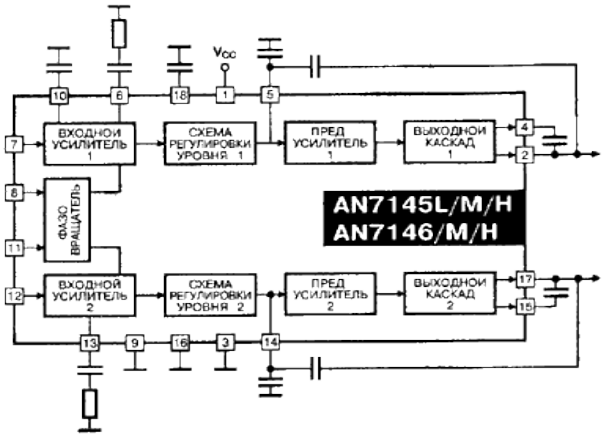


AN7145

7.5 WATT
STEREO AMPLİFİKATÖR

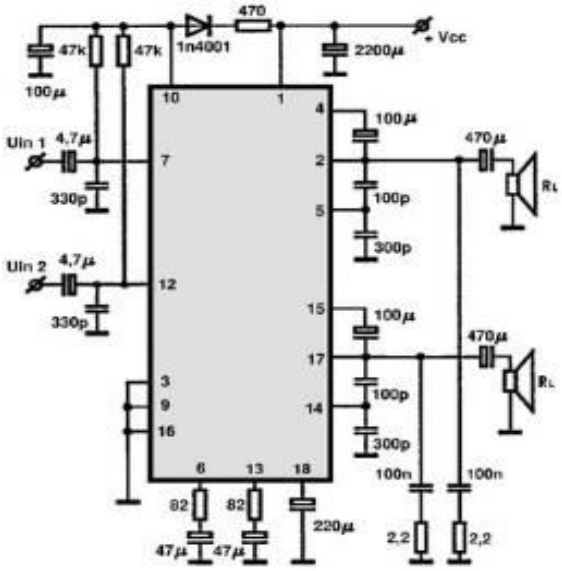


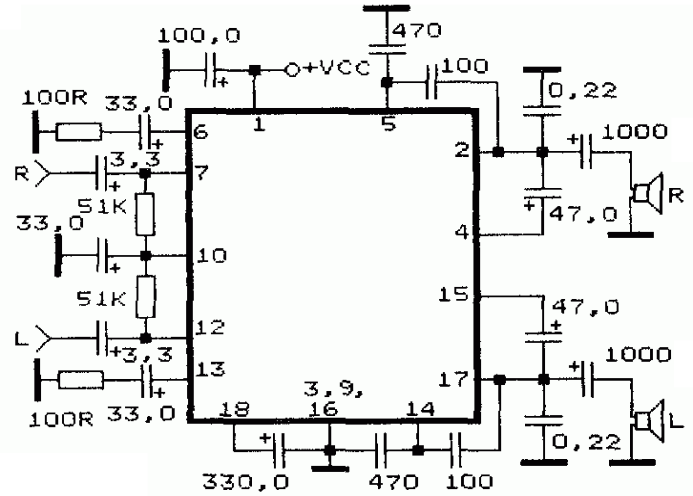
İÇ YAPISI



KOPRU BAGLANTI 15.5 WATT

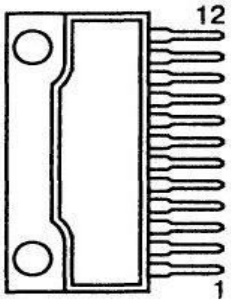
ÇEŞİTLİ DEVRE ŞEMALARI



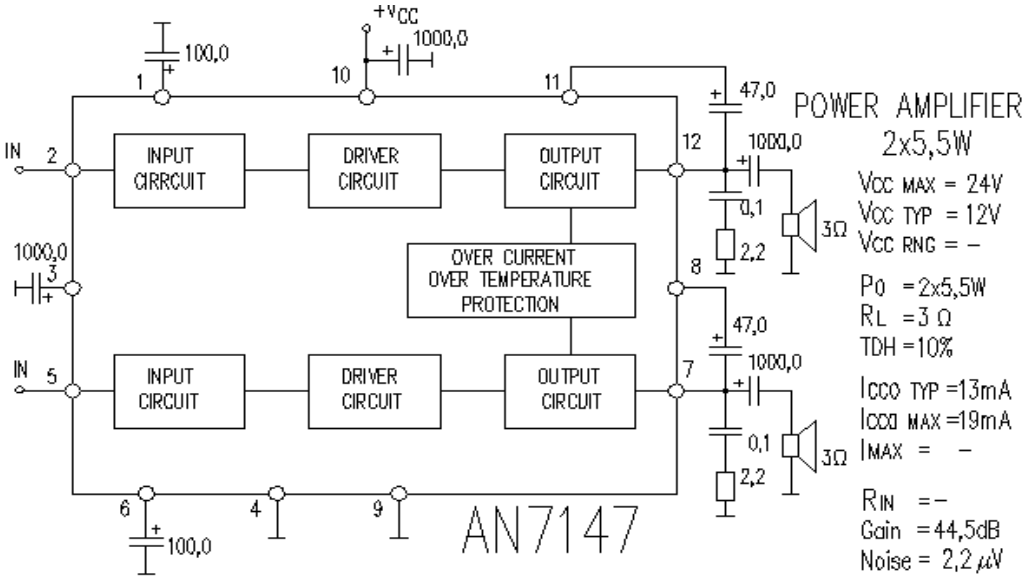


AN7147

5.5 WATT
STEREO AMPLİFİKATÖR

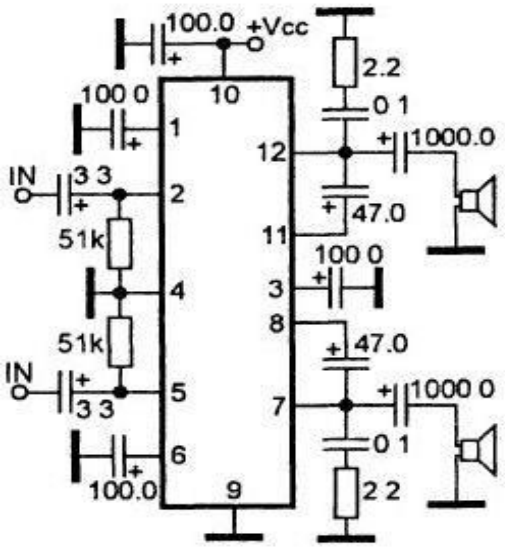


İÇ YAPISI

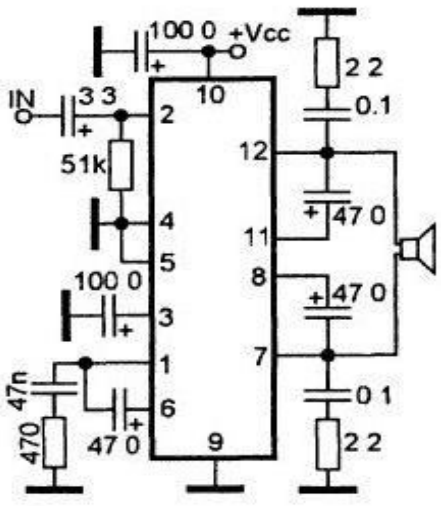


ÇEŞİTLİ DEVRE ŞEMALARI

5.5 WATT STEREO AMPLİFİKATÖR

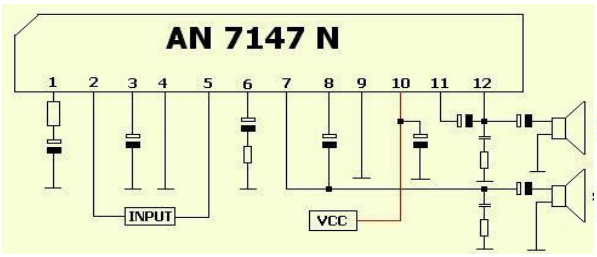


Standard (dual SE) sample application circuit

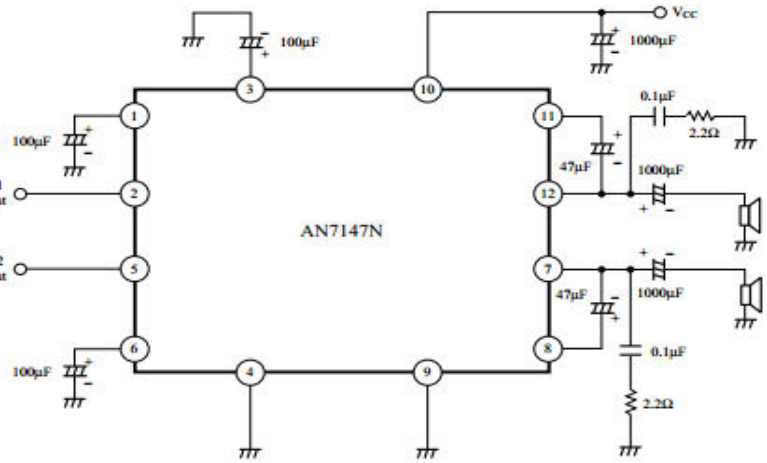


BTL mode sample application circuit

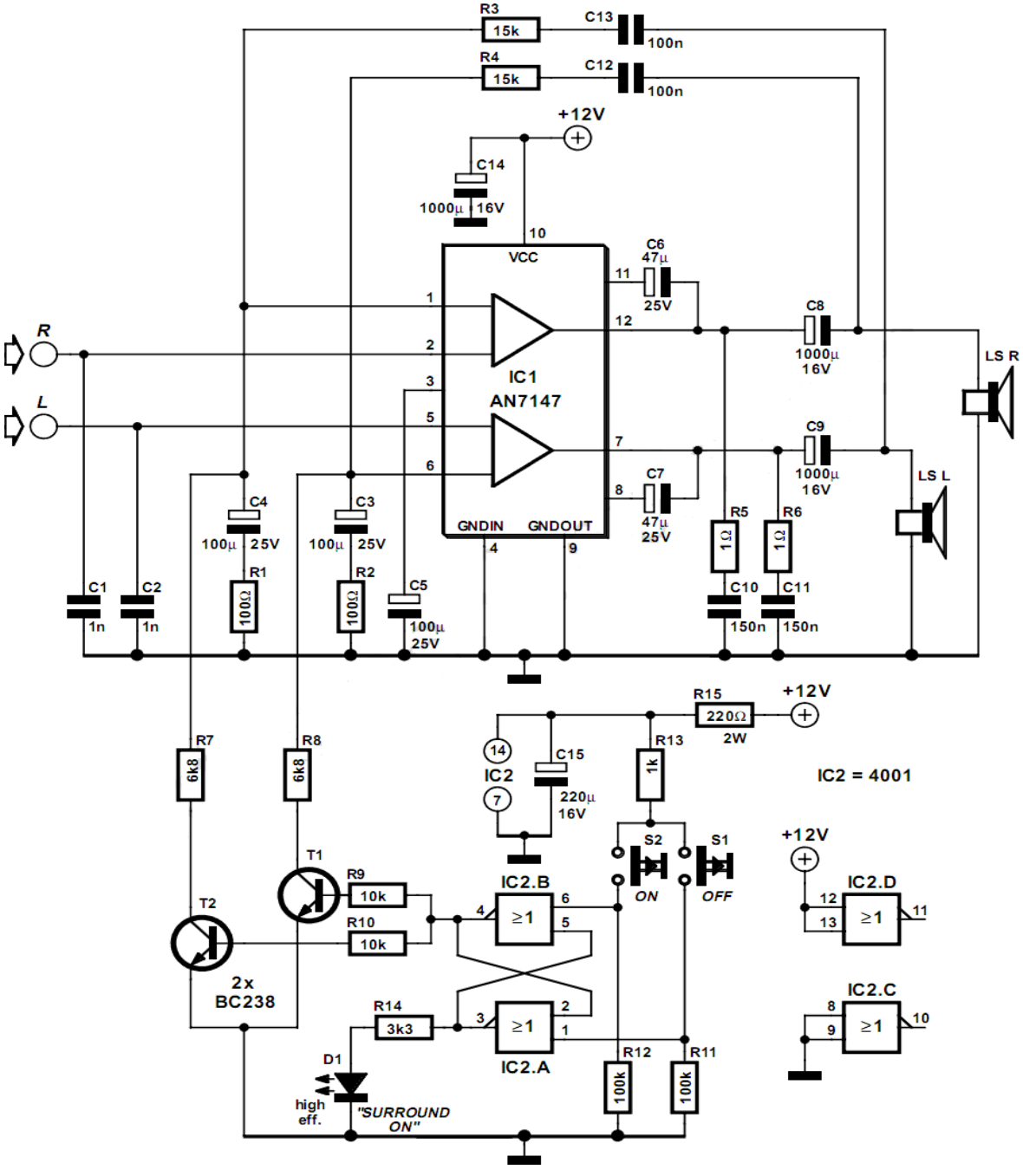
5.5 WATT STEREO AMPLİFİKATÖR



5.5 WATT STEREO AMPLİFİKATÖR

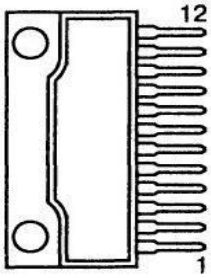


SUBWOOFER VE 5.5 WATT STEREO AMPLİFİKATÖR

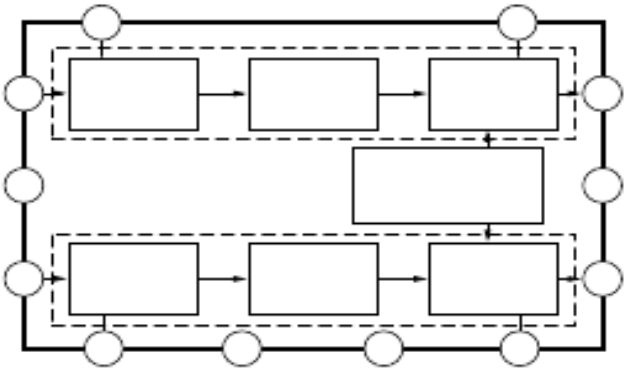


AN7148

2.1 WATT
STEREO AMPLİFİKATÖR

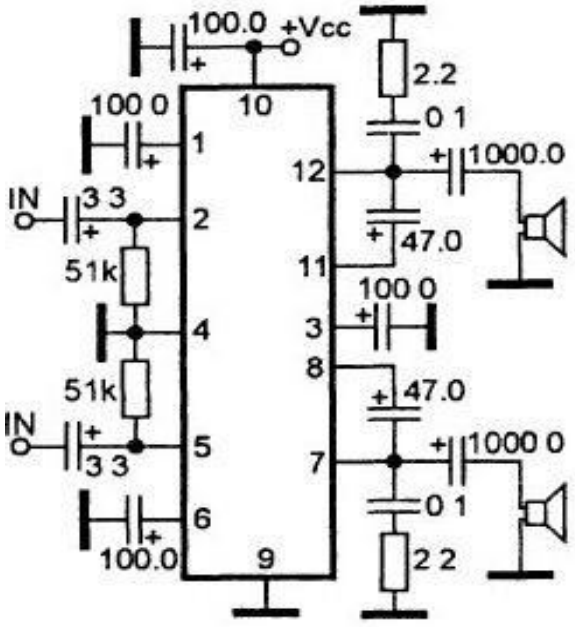


İÇ YAPISI

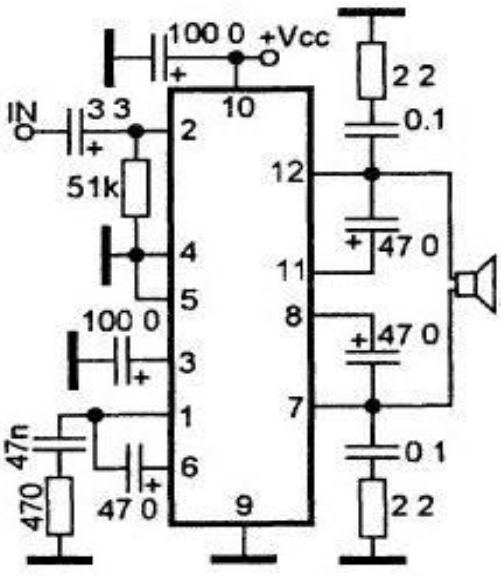


ÇEŞİTLİ DEVRE ŞEMALARI

2.1 WATT STEREO AMPLİFİKATÖR

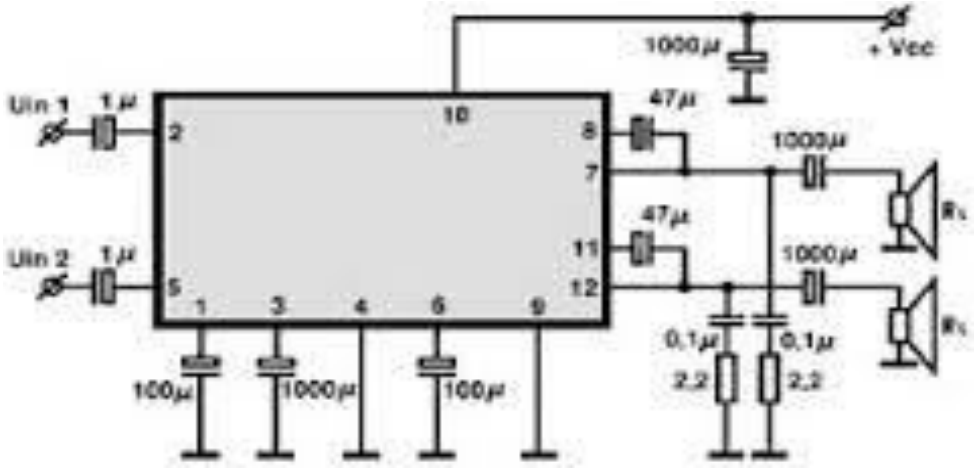


Standard (dual SE) sample application circuit

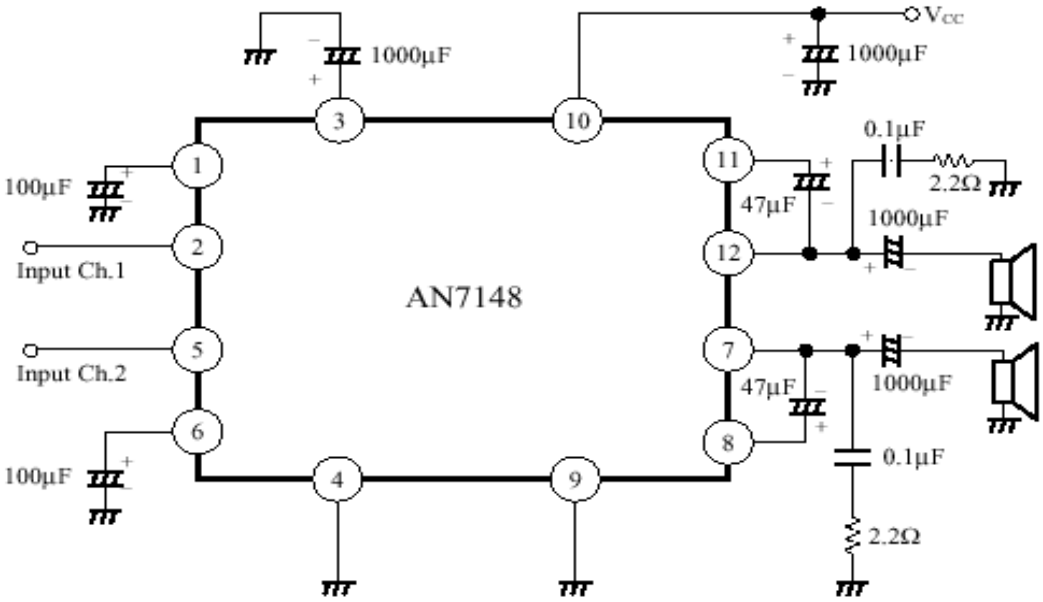


BTL mode sample application circuit

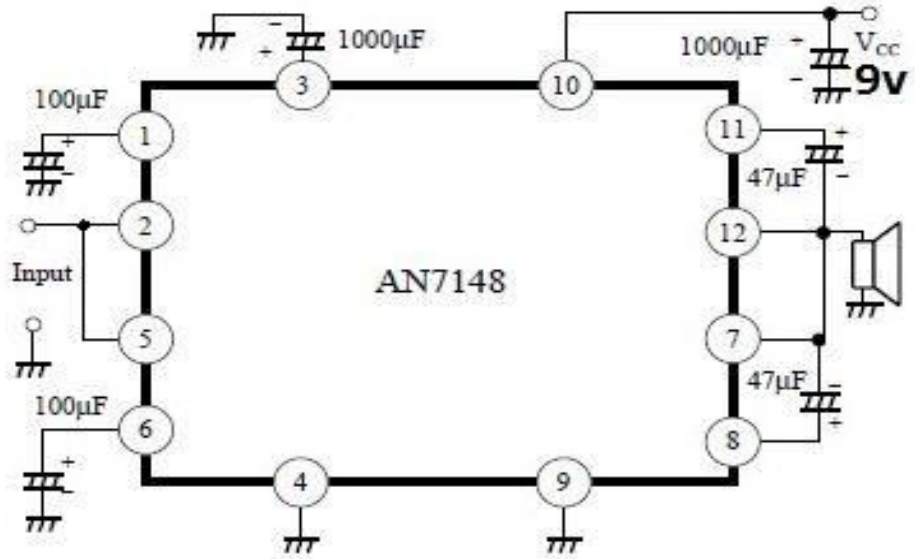
2.1 WATT STEREO AMPLİFİKATÖR



2.1 WATT STEREO AMPLİFİKATÖR

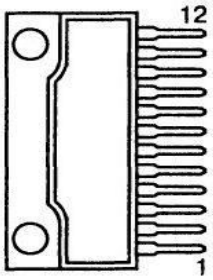


4 WATT MONO (KÖPRÜ) AMPLİFİKATÖR

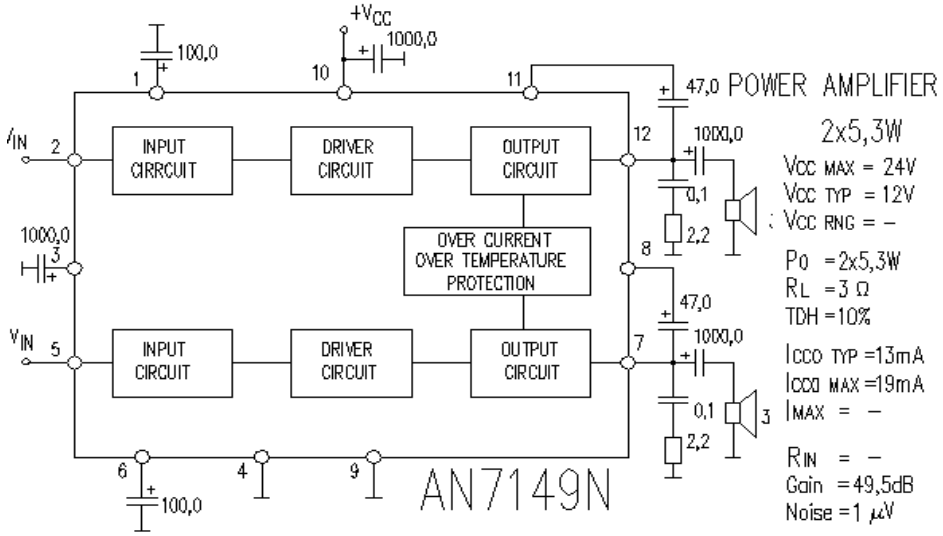


AN7149

5.3 WATT
STEREO AMPLİFİKATÖR

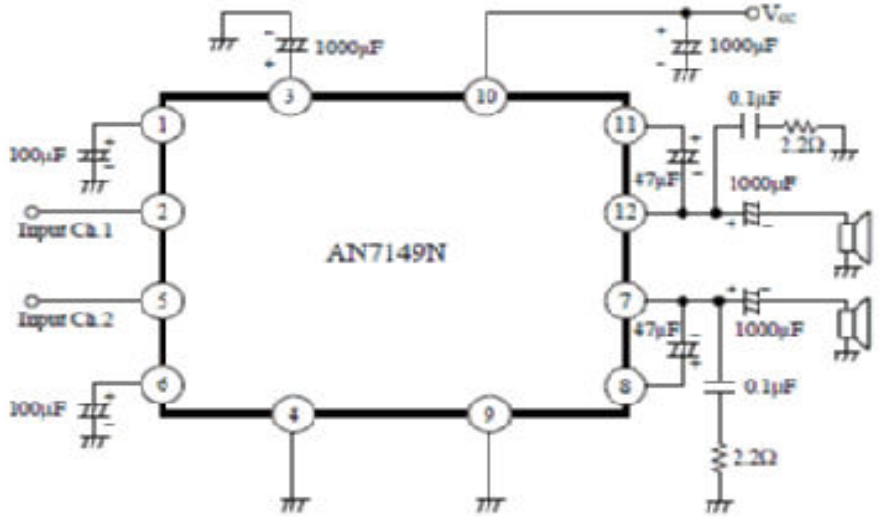


İÇ YAPISI



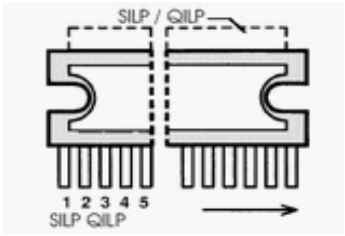
ÇEŞİTLİ DEVRE ŞEMALARI

5.3 WATT STEREO AMPLİFİKATÖR



AN7154

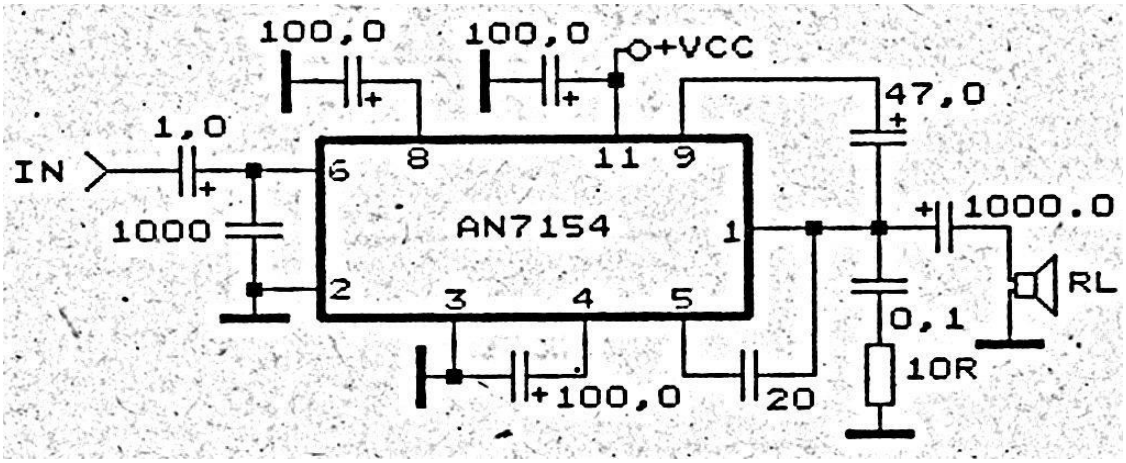
5.5 WATT
MONO AMPLİFİKATÖR



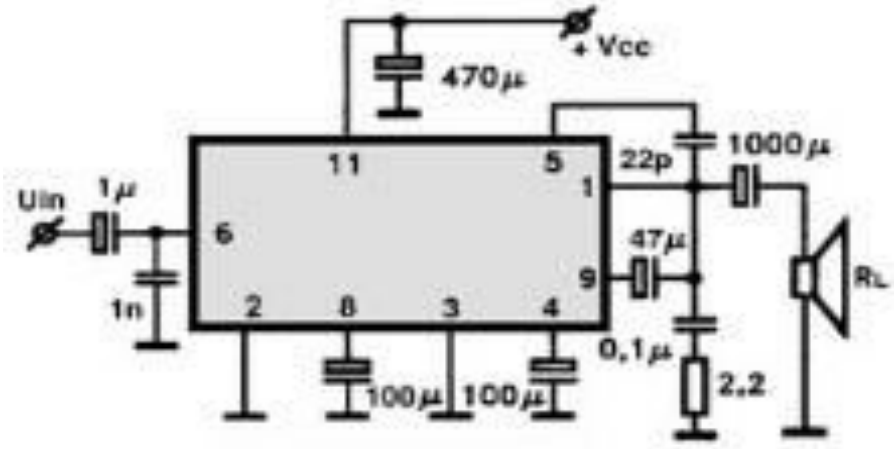
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

5.5 WATT MONO AMPLİFİKATÖR

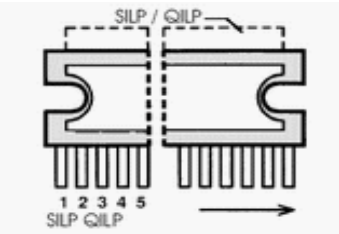


5.5 WATT MONO AMPLİFİKATÖR

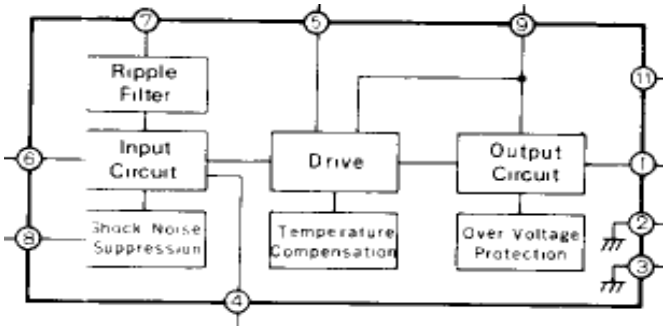


AN7155

5.5 WATT
MONO AMPLİFİKATÖR

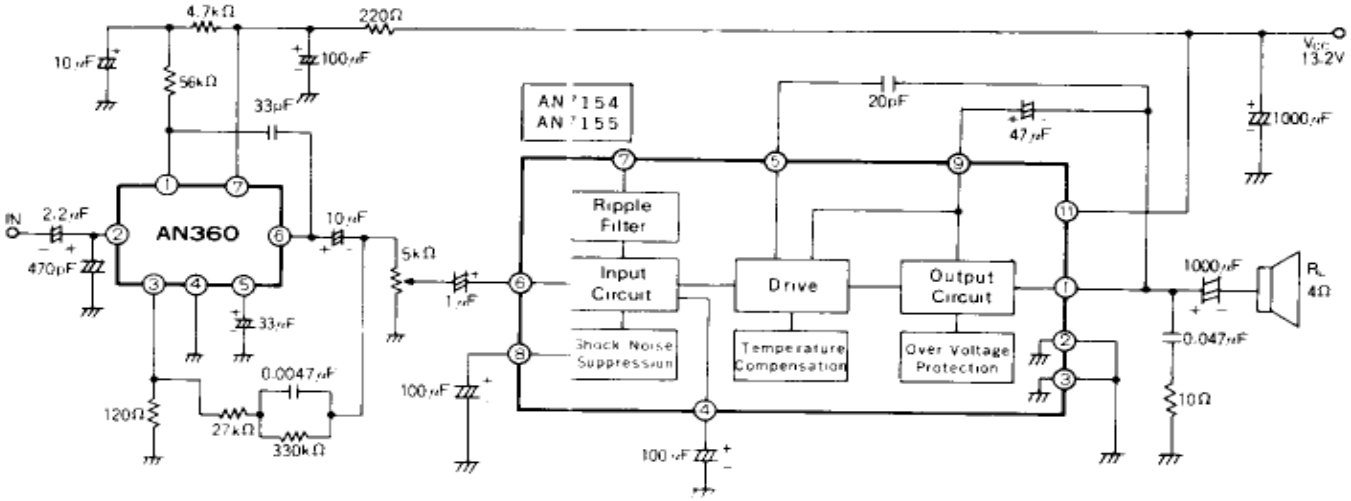


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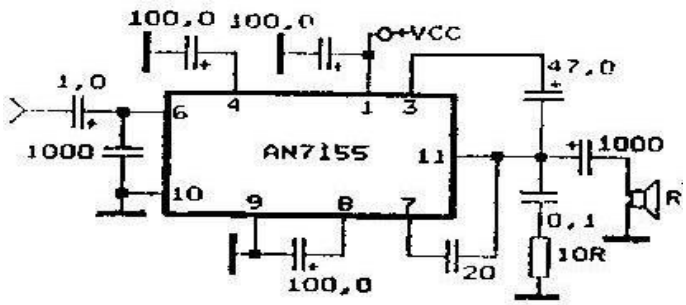


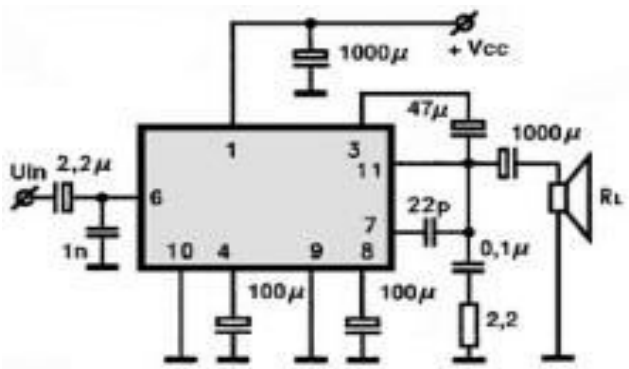
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5.5 WATT MONO AMPLİFİKATÖR



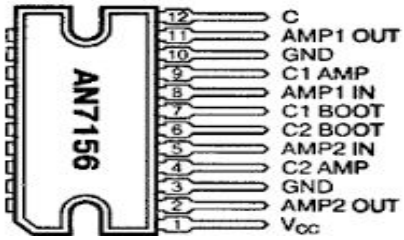
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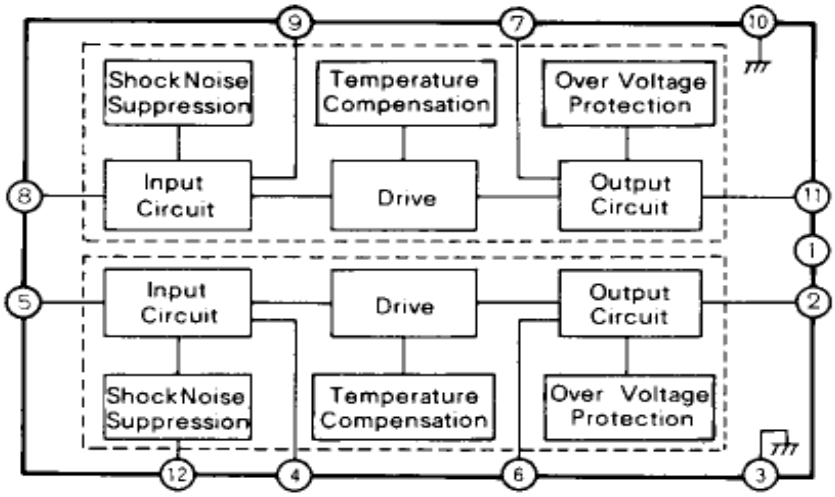


AN7156

5.5 WATT
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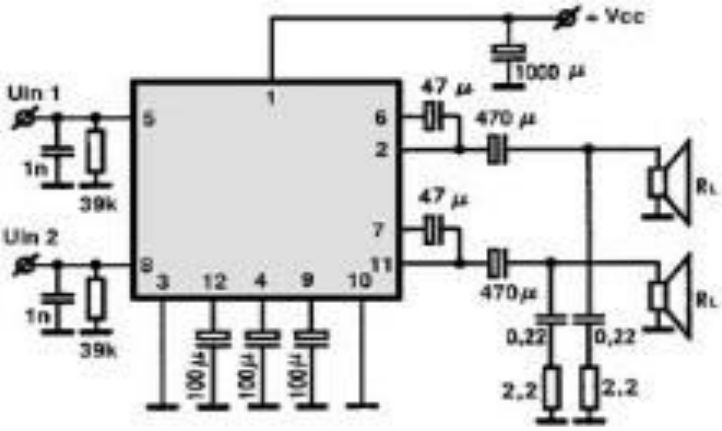


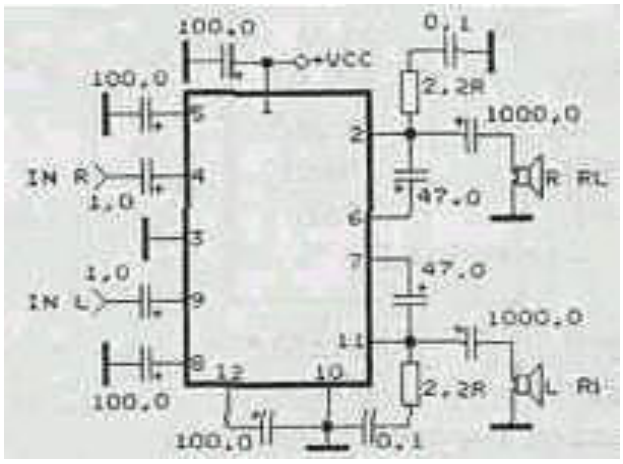
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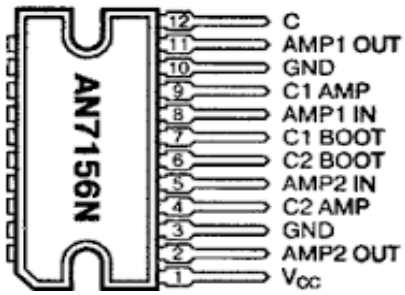
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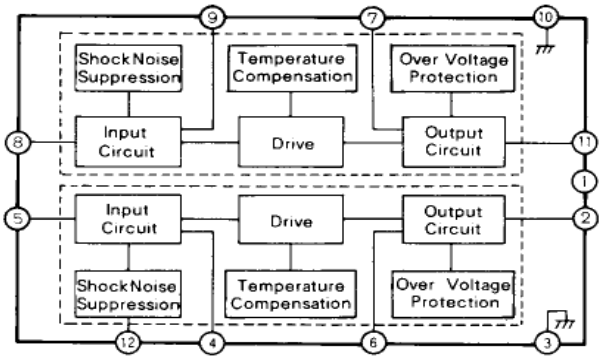


AN7156N

5.5 WATT
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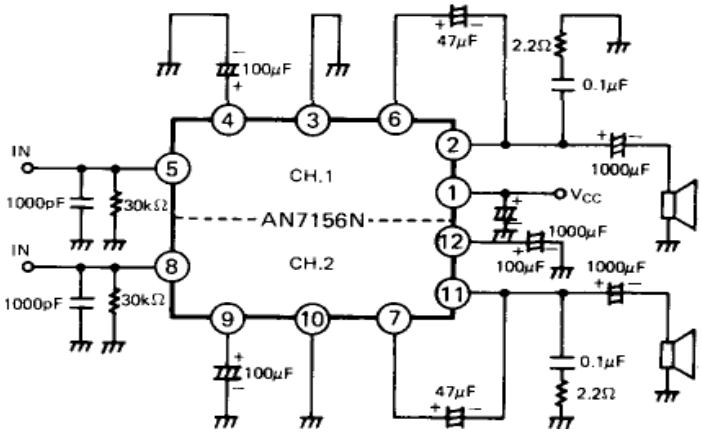


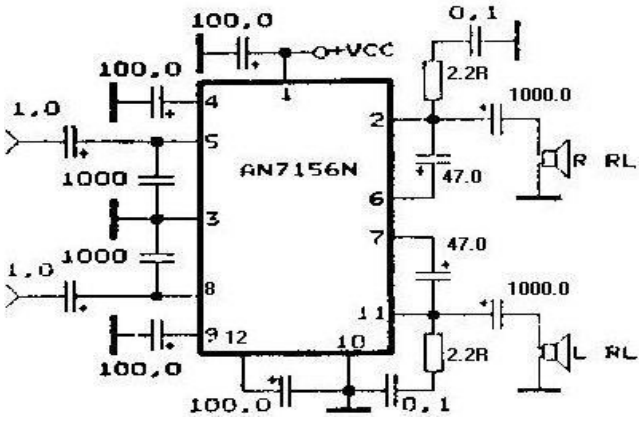
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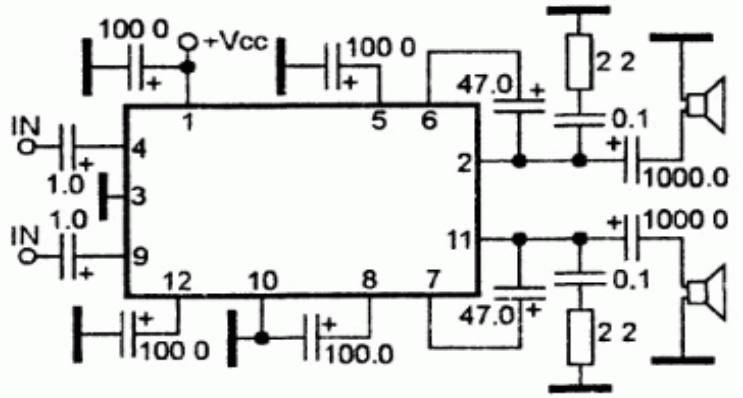


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5.5 WATT STEREO AMPLİFİKATÖR

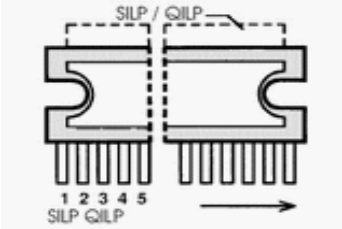




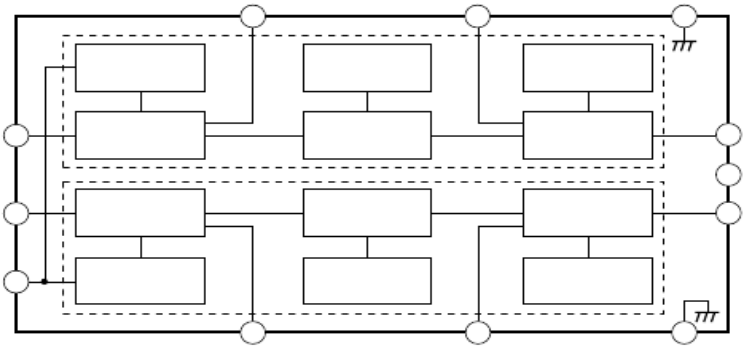


AN7158

7.5 WATT
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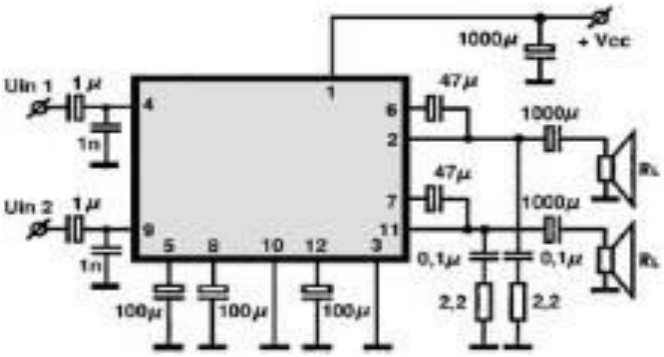


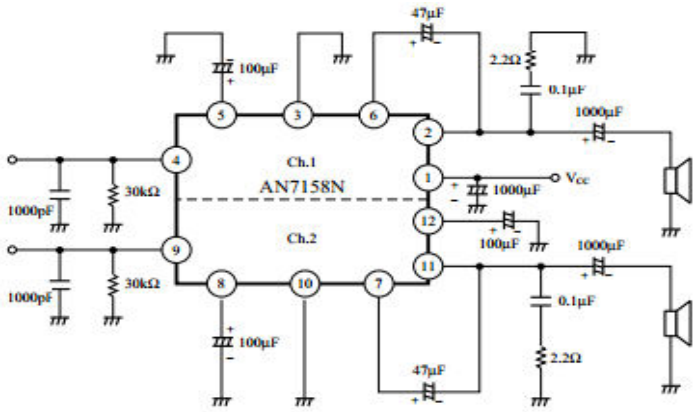
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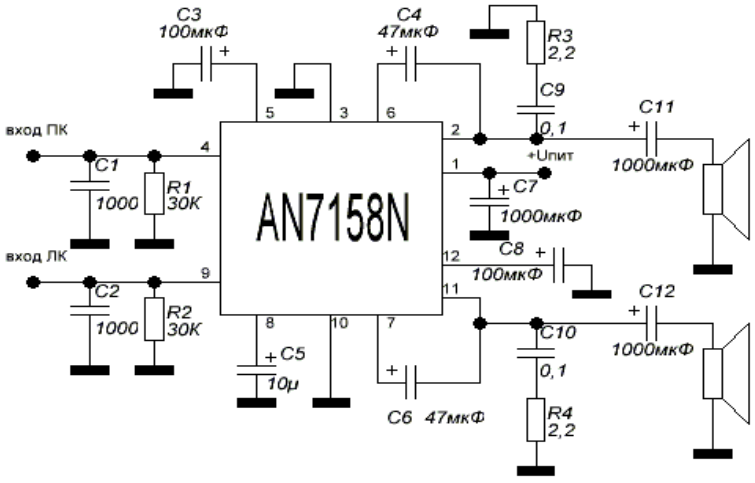


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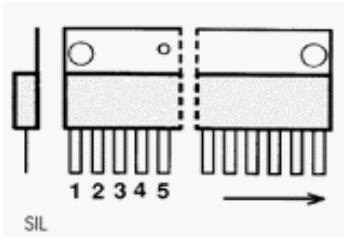




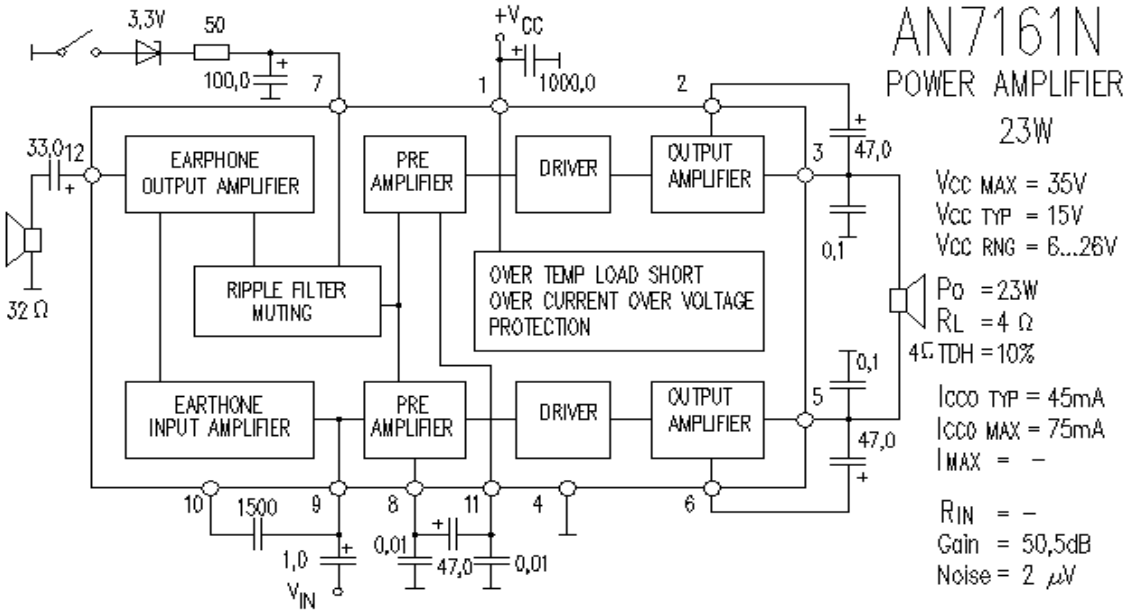


AN7161N

14 WATT
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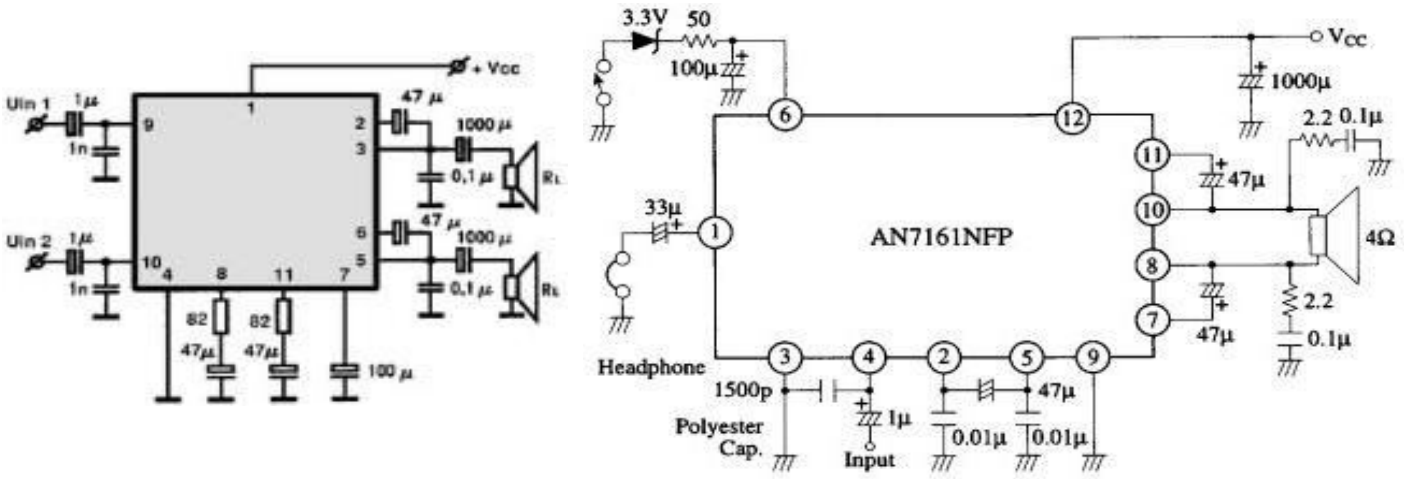


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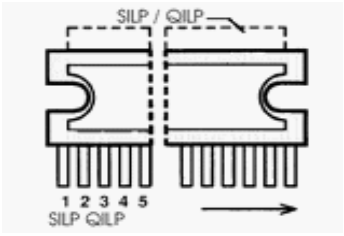
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14 WATT STEREO AMPLİFİKATÖR



AN7162K

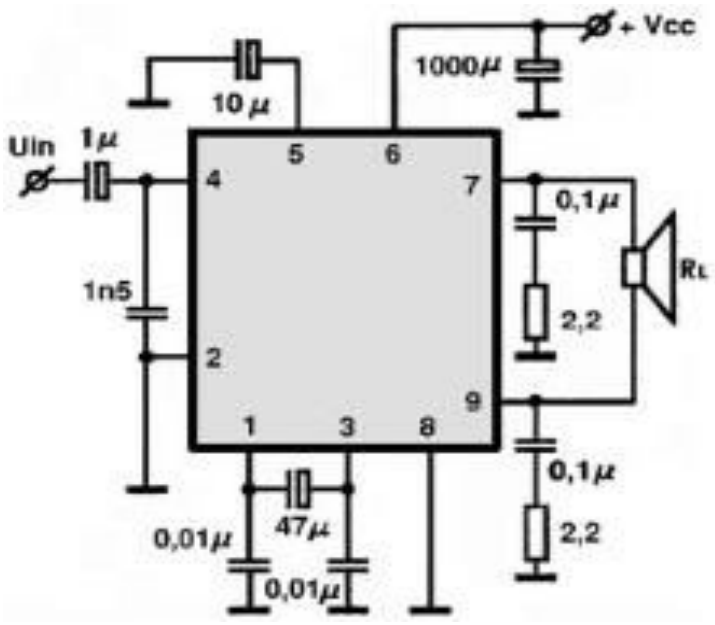
14 WATT
MONO AMPLİFİKATÖR



İÇ YAPISI

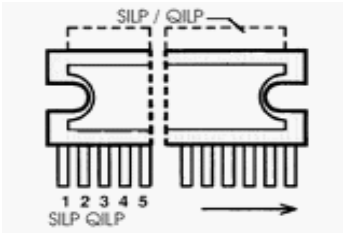
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14 WATT MONO AMPLİFİKATÖR



AN7163

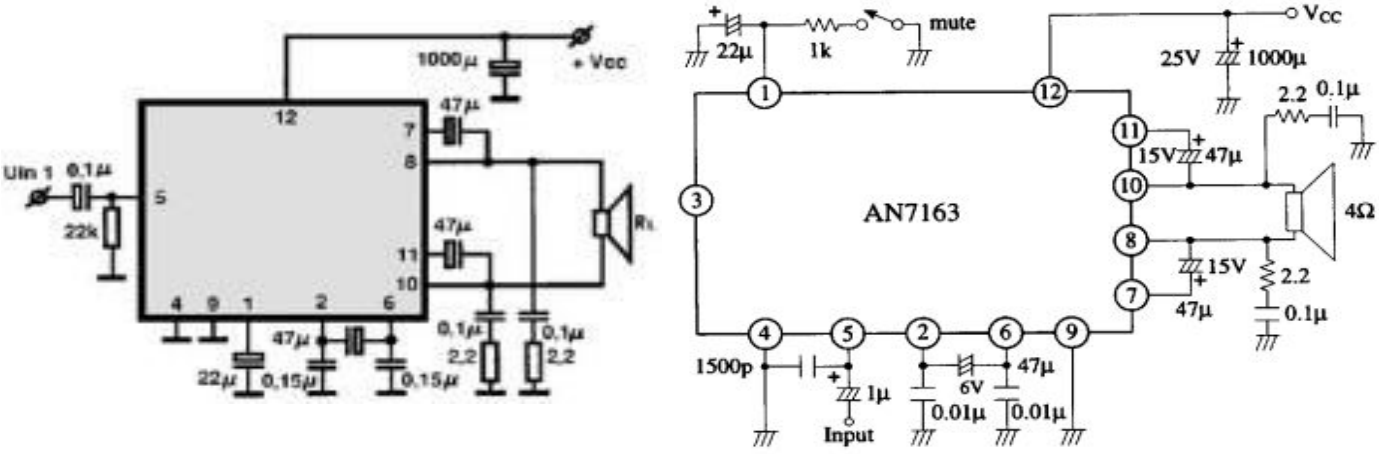
17 WATT
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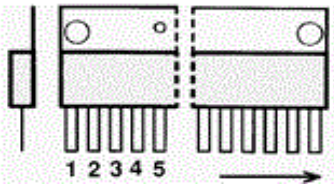
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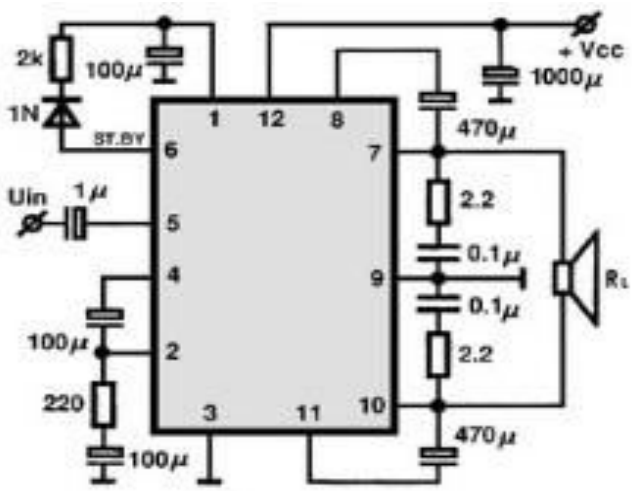
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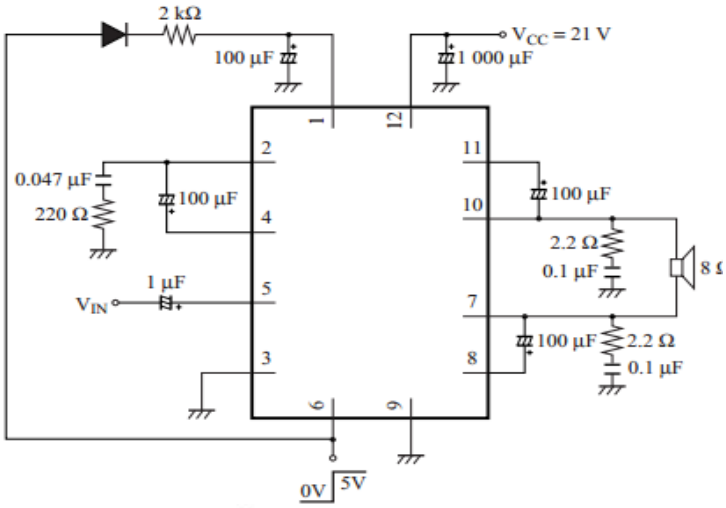


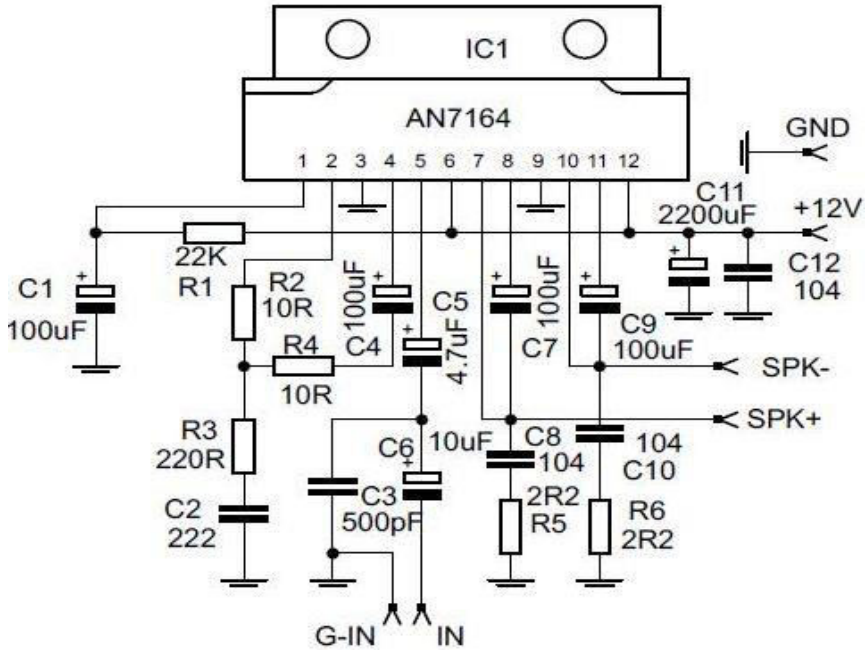
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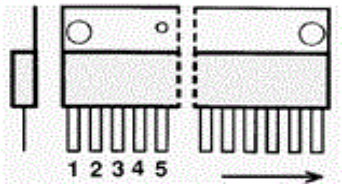




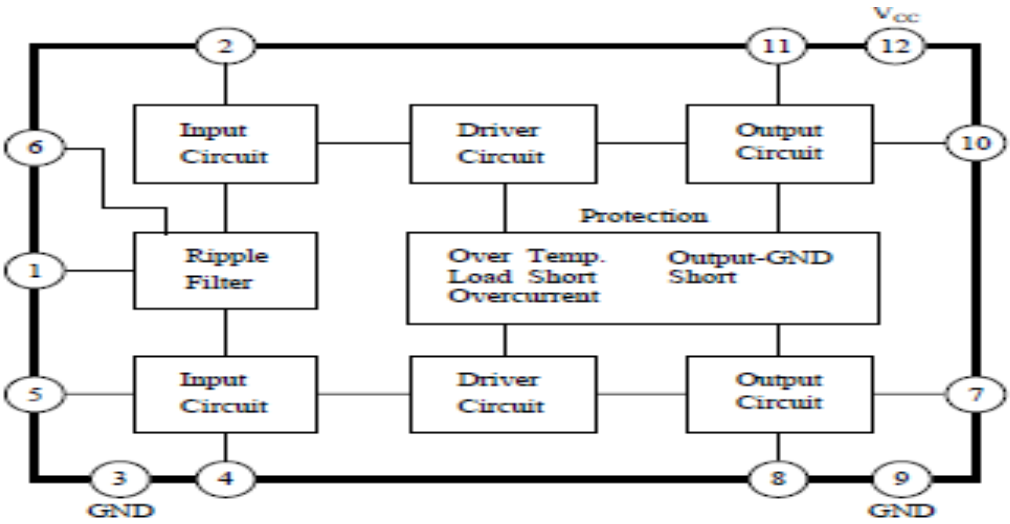


AN7164N

47 WATT
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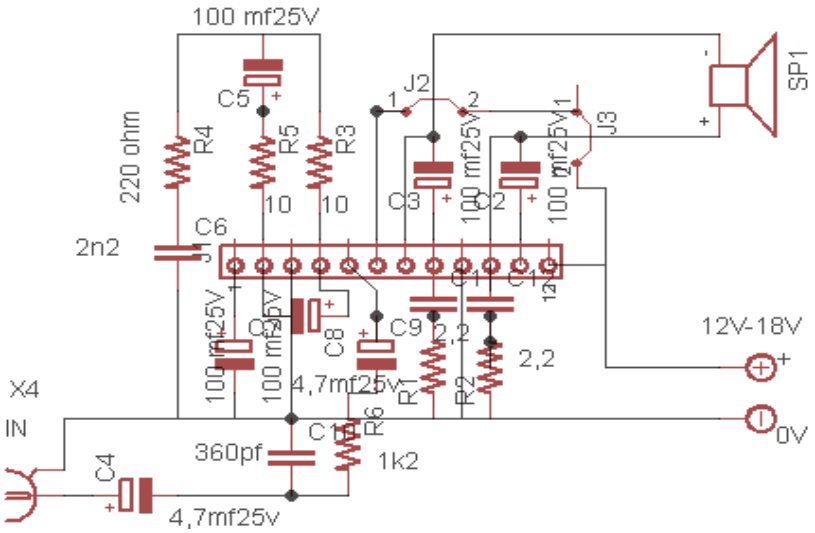


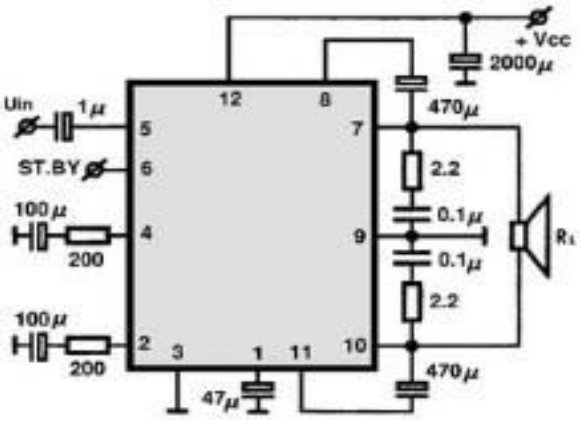
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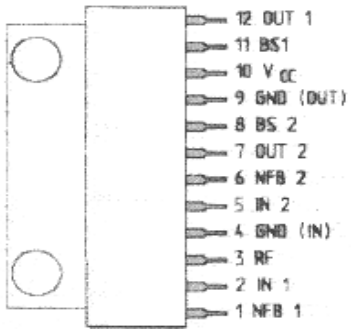
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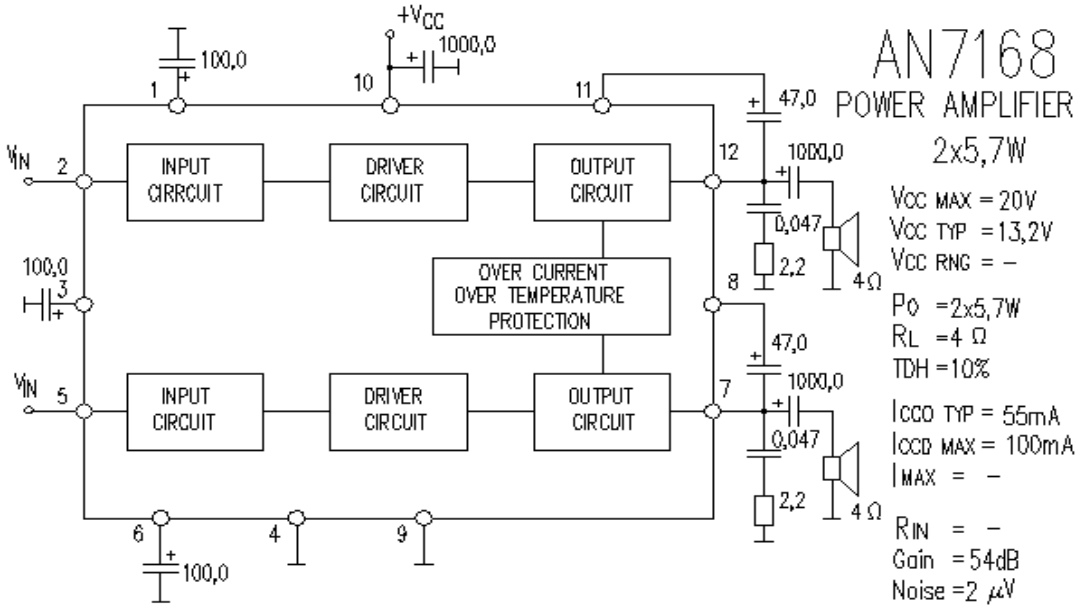


AN7168

5.7 WATT
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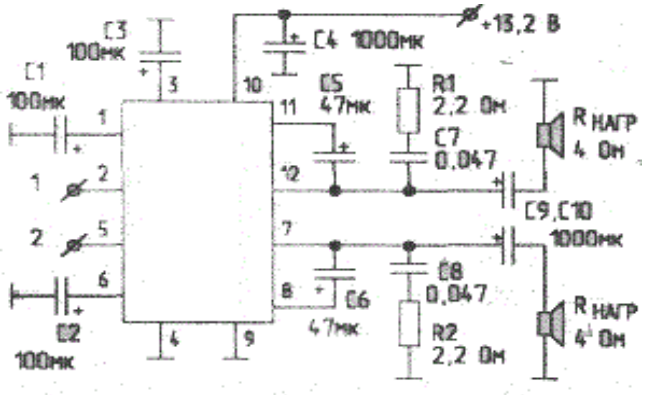


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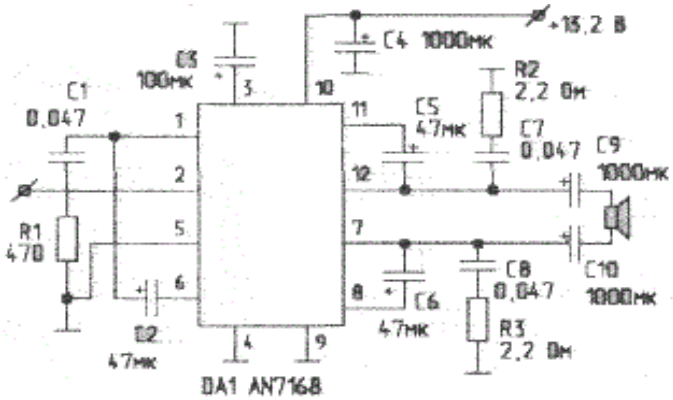


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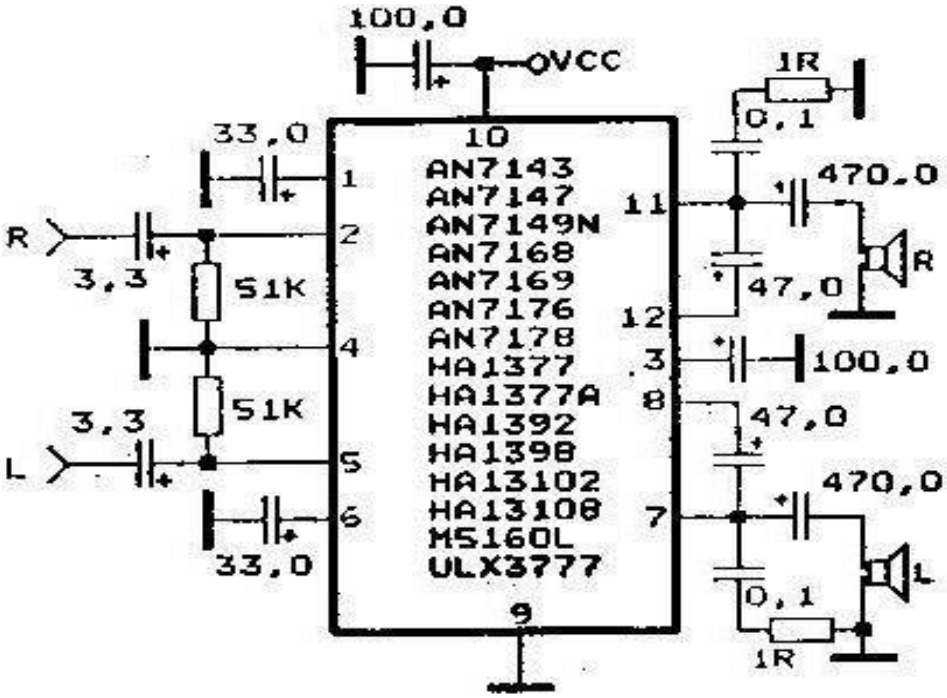
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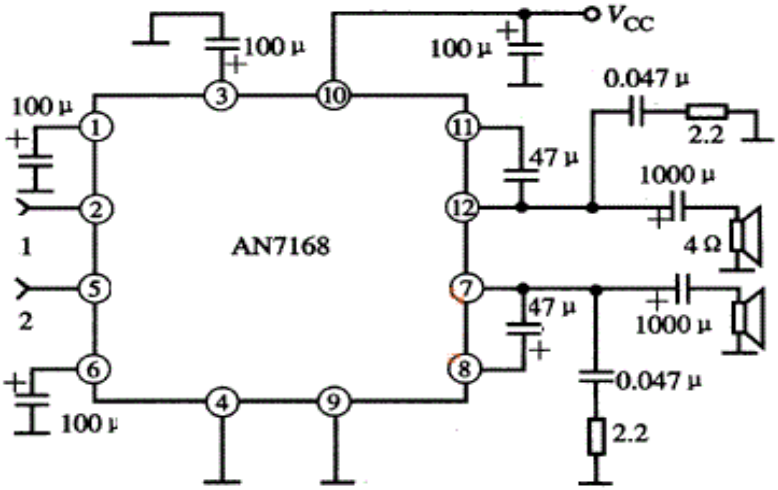
10 WATT MONO AMPLİFİKATÖR



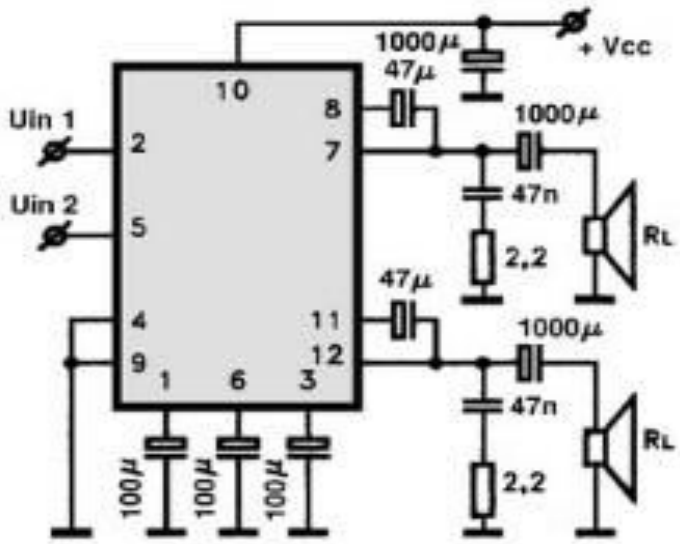
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5.7 WATT STEREO AMPLİFİKATÖR

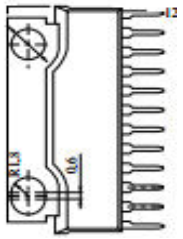


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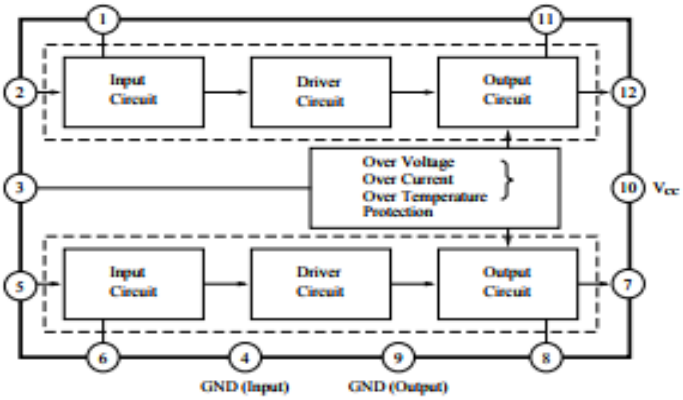


AN7169

5.8 WATT
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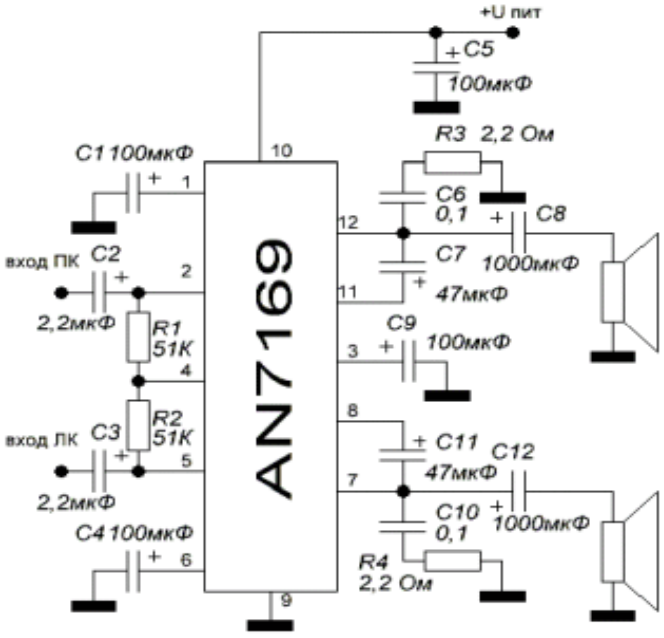


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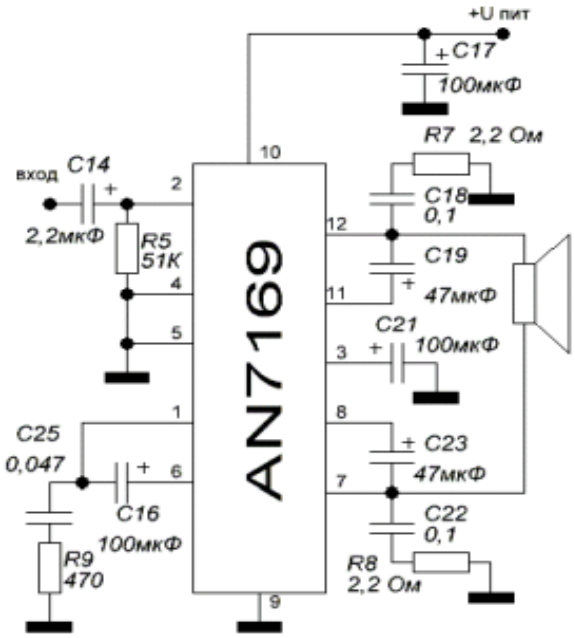


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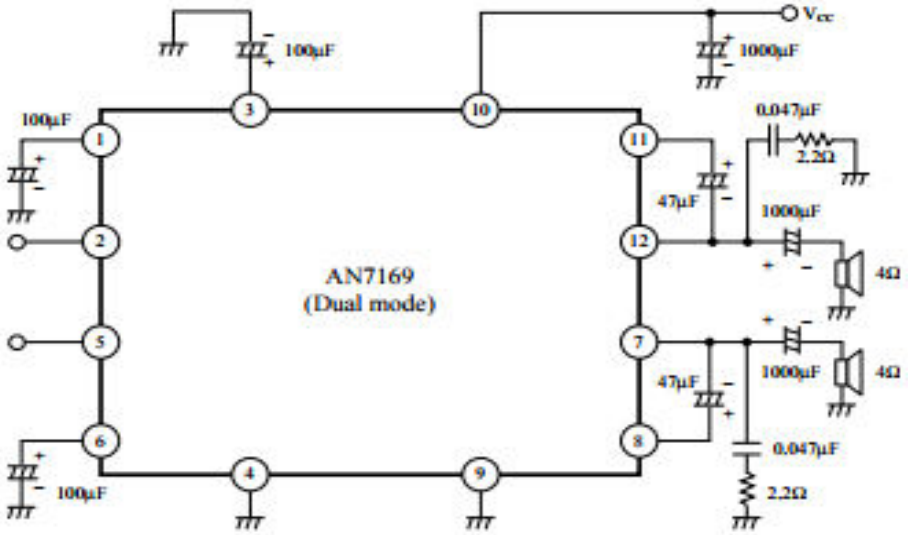
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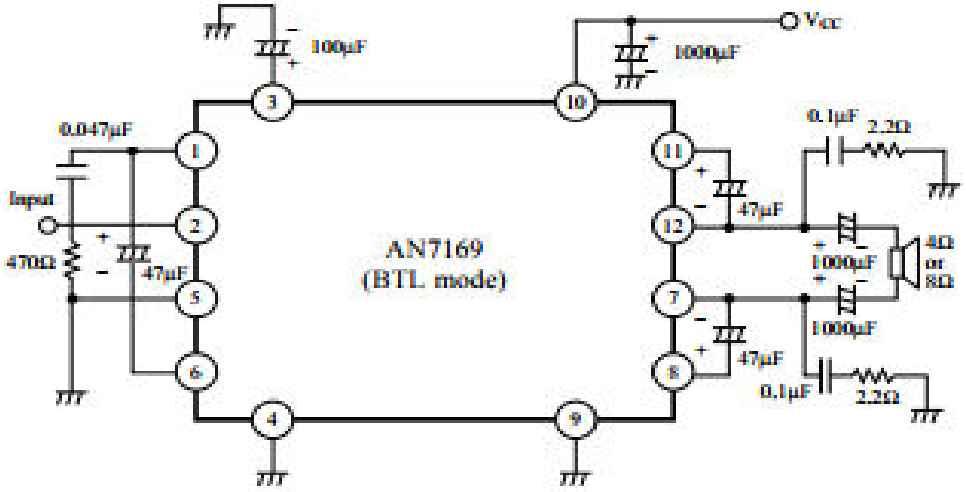
11 WATT MONO AMPLİFİKATÖR



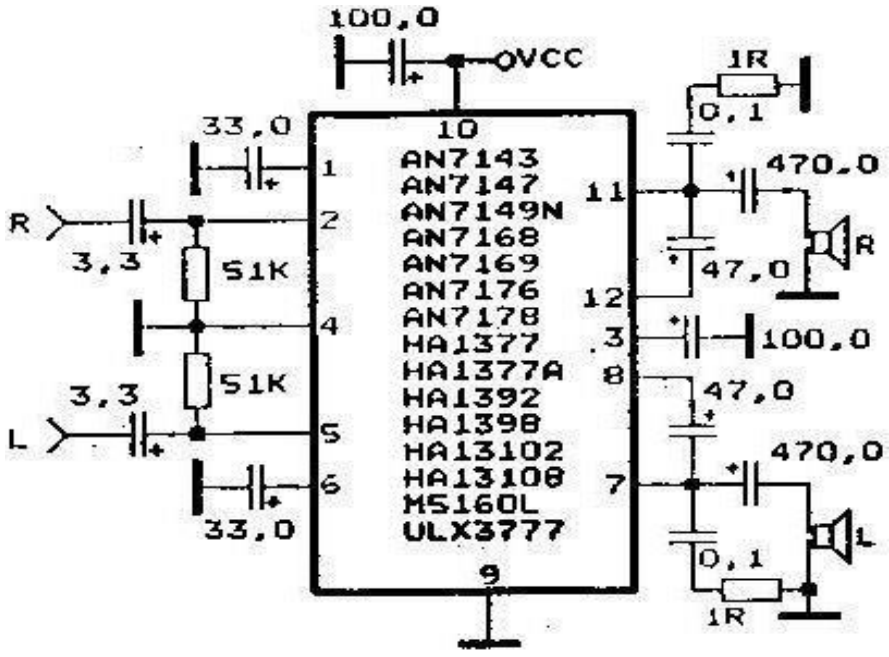
5.8 WATT STEREO AMPLİFİKATÖR



11 WATT MONO AMPLİFİKATÖR

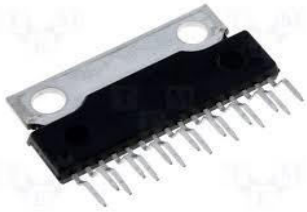


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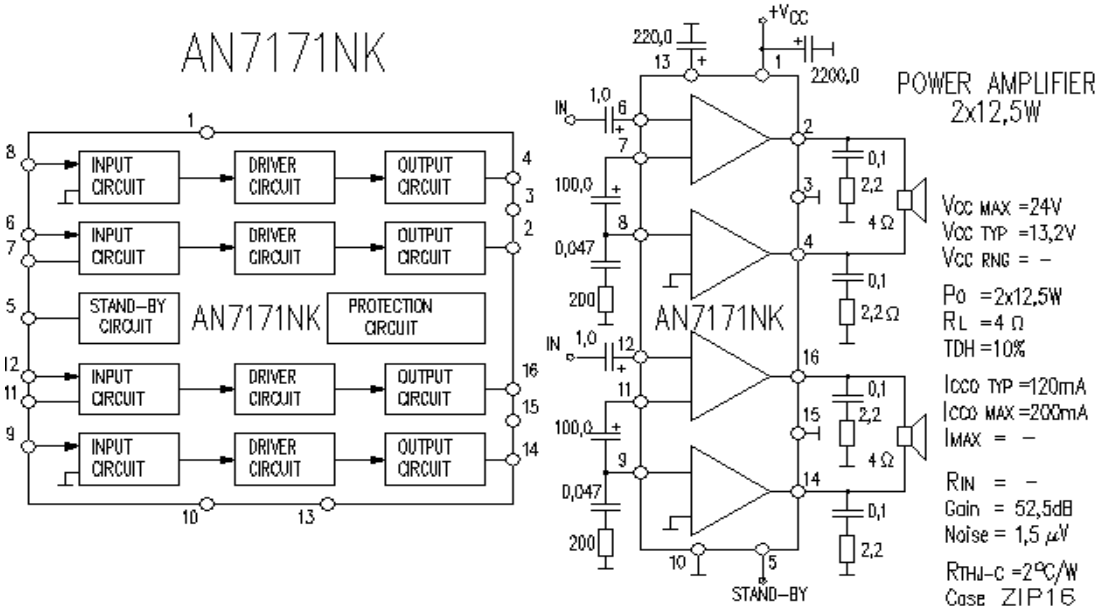


AN7171NK

12.5 WATT
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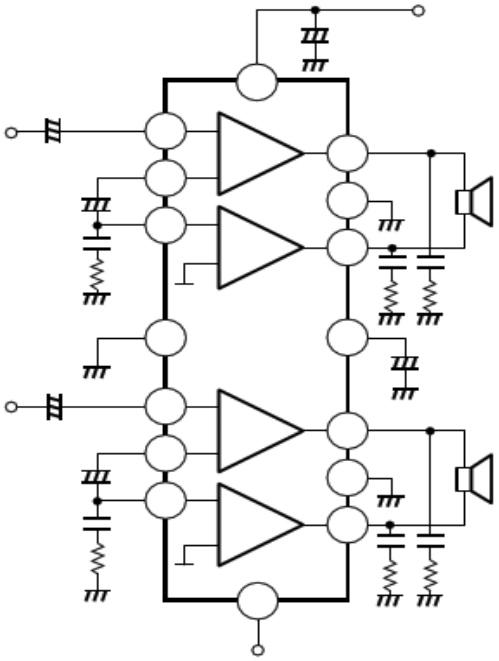


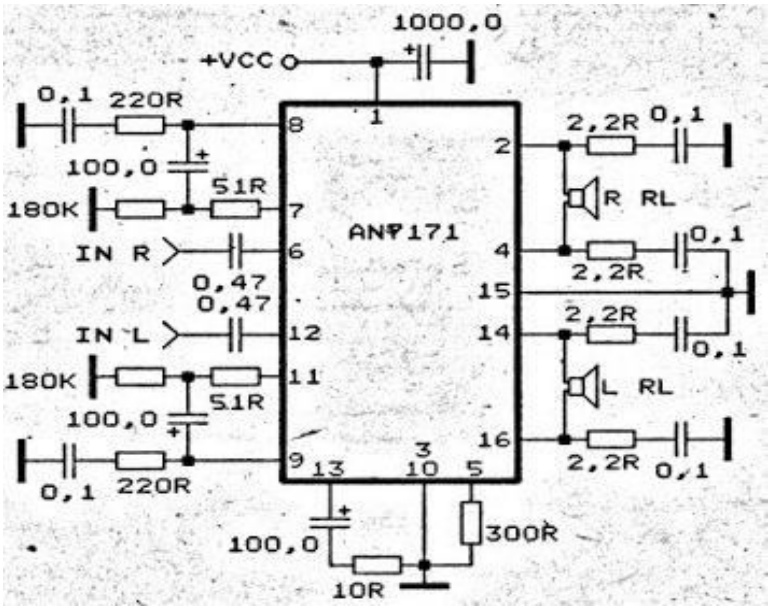
İÇ YAPISI



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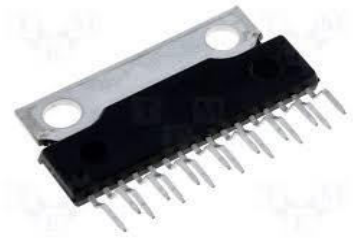
12.5 WATT STEREO AMPLİFİKATÖR



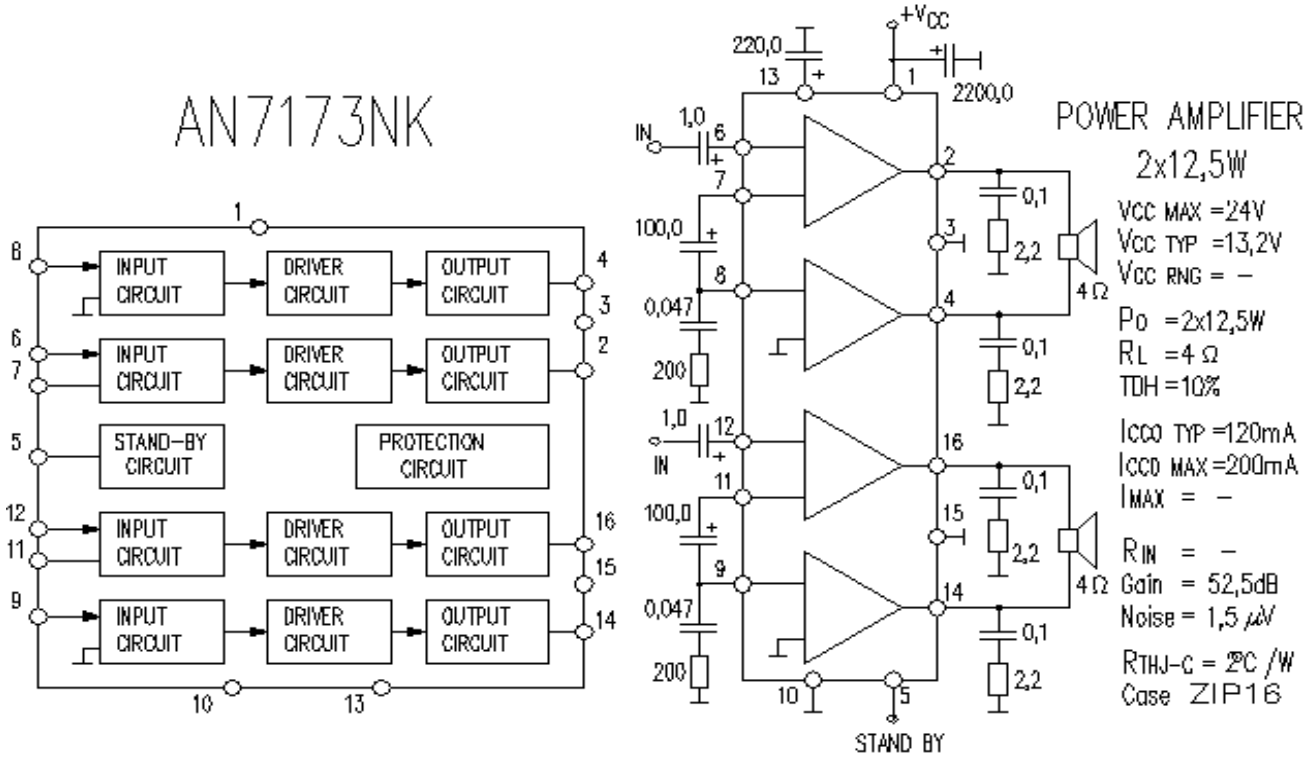


AN7173NK

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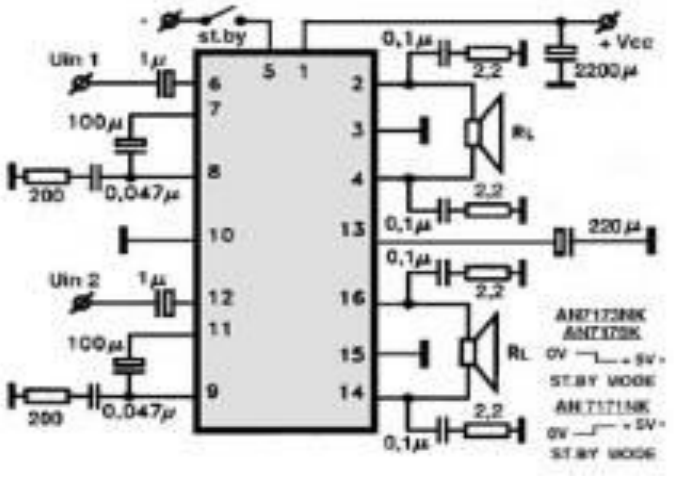


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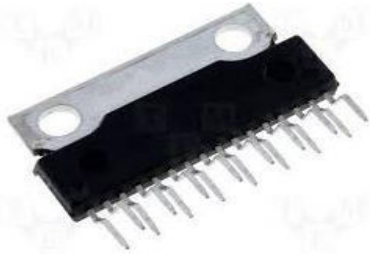
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AN7176

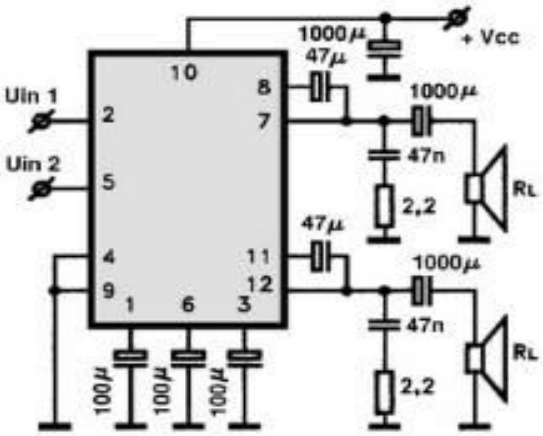
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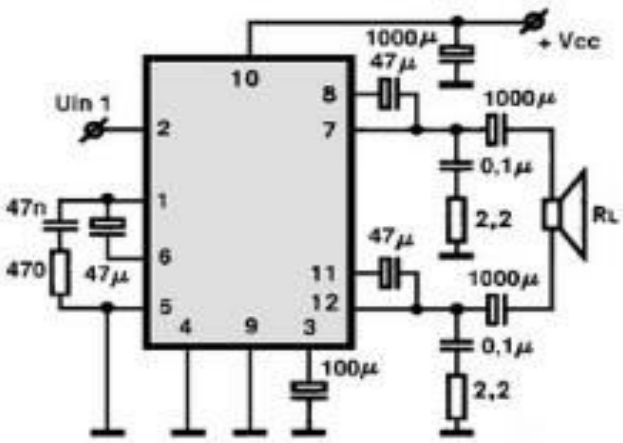
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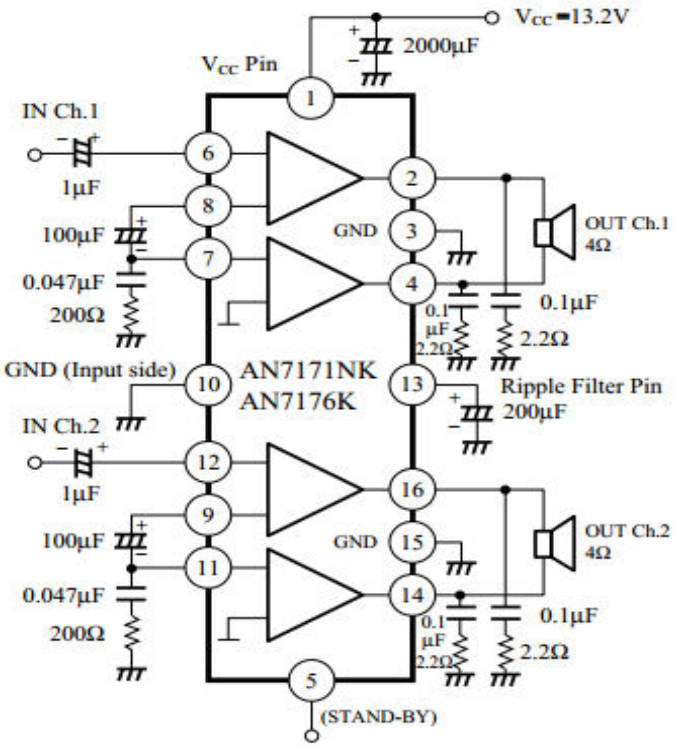
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14 WATT MONO AMPLİFİKATÖR

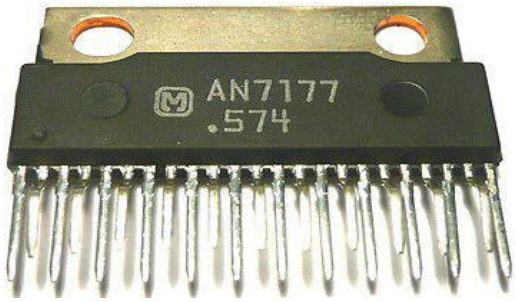


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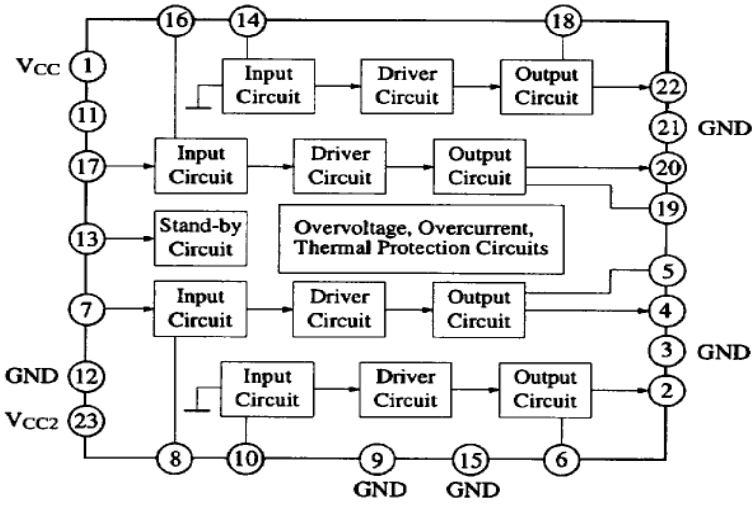


AN7177

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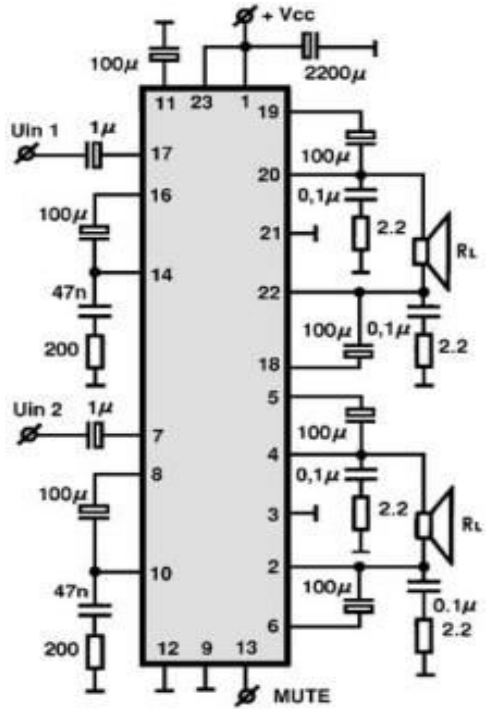


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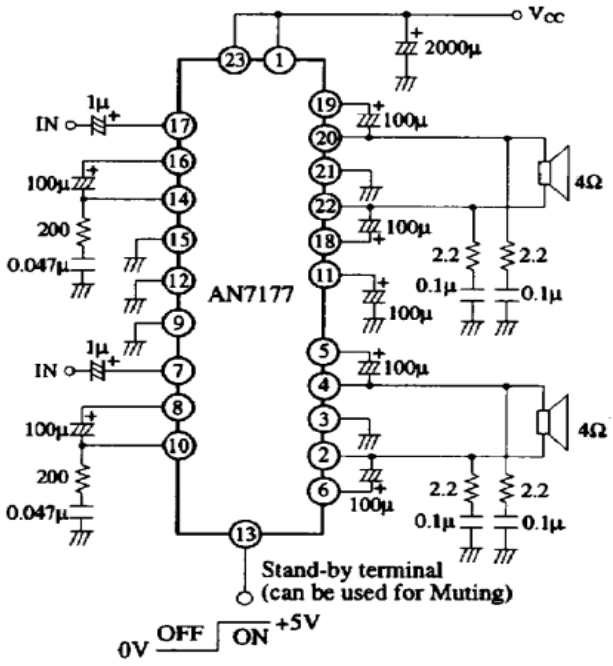


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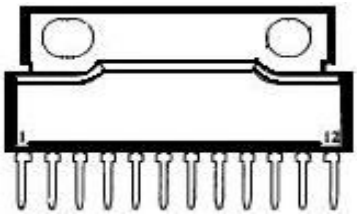


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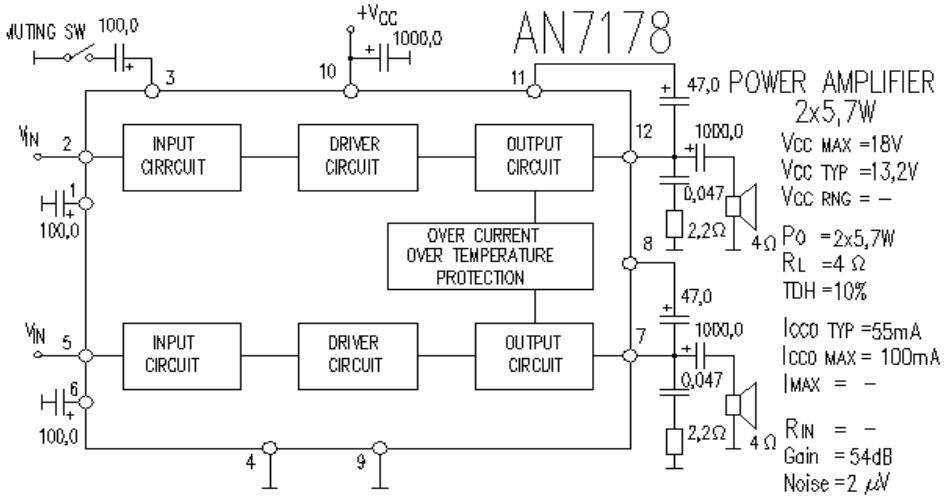


AN7178

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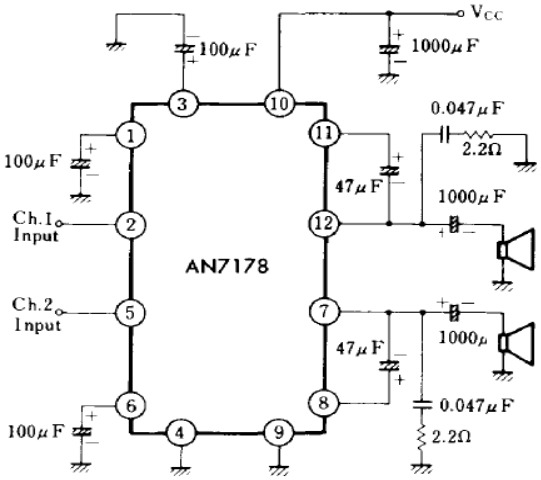


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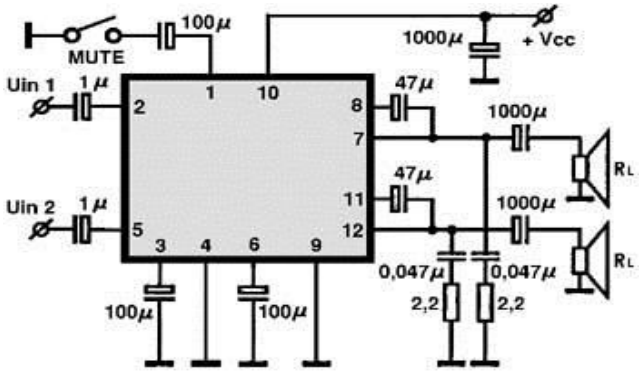


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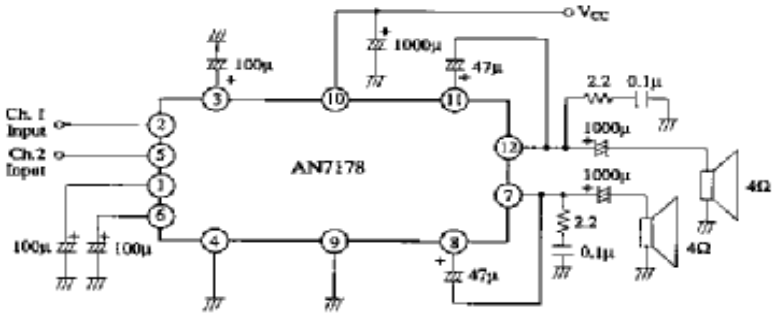
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5.7 WATT STEREO AMPLİFİKATÖR

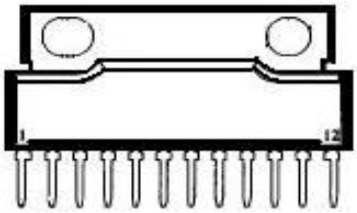


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AN7188

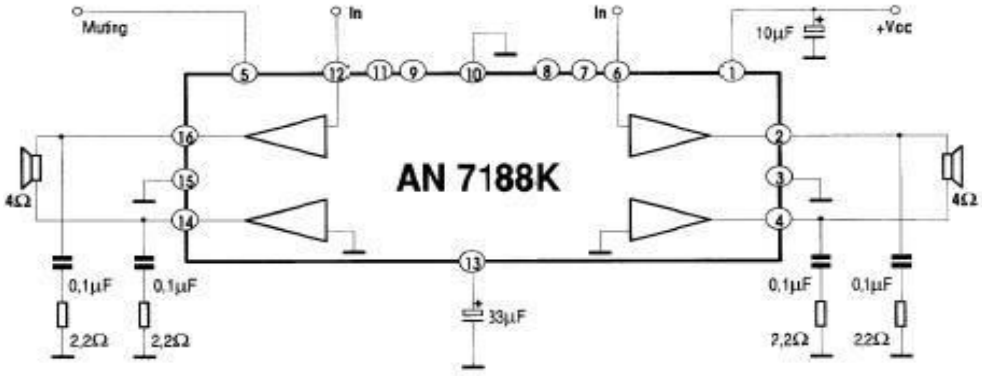
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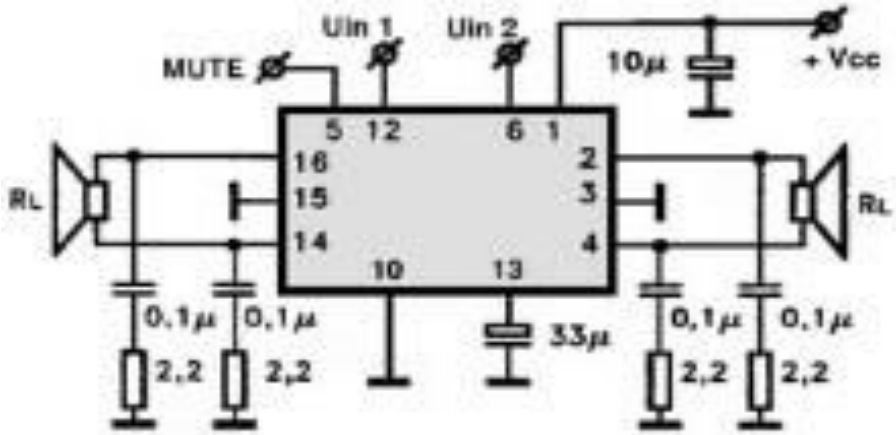
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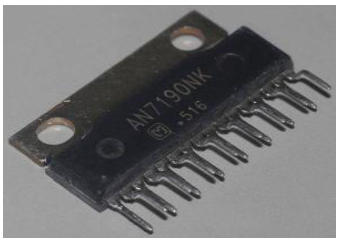


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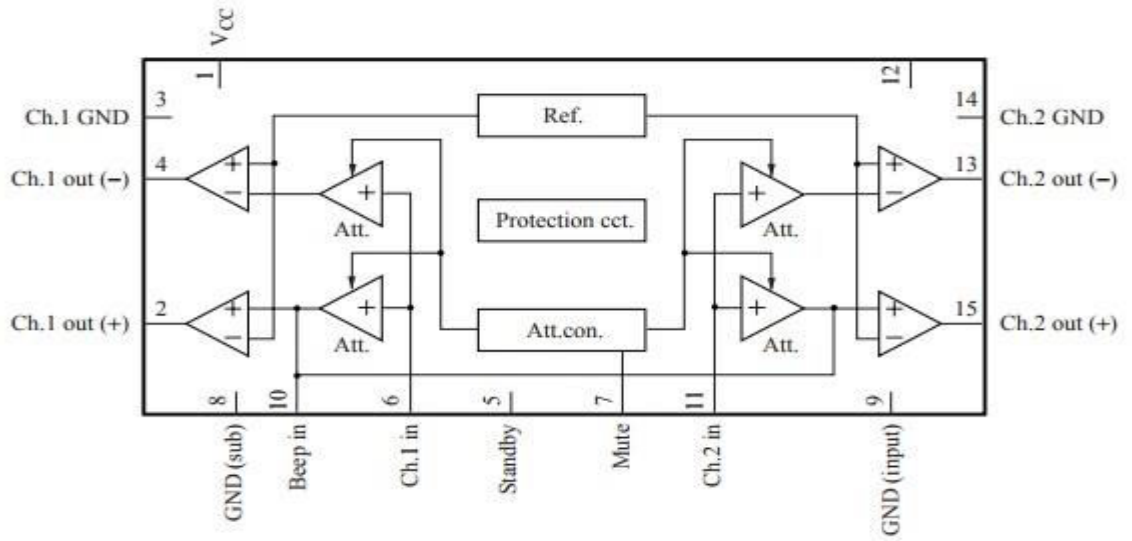


AN7190K

20 WATT
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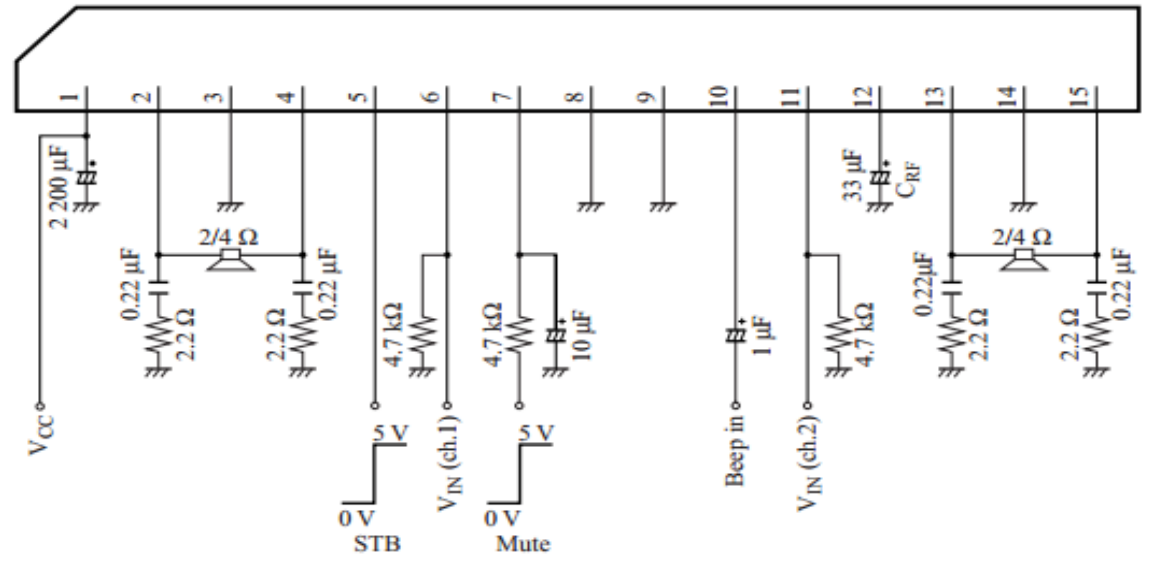


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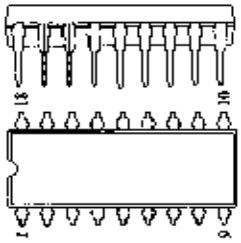
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20 WATT STEREO AMPLİFİKATÖR

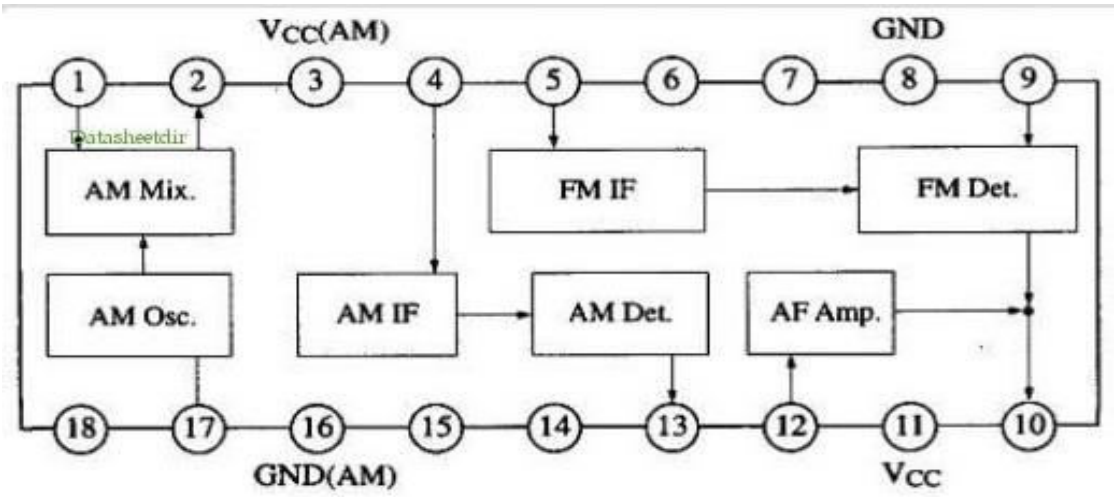


AN7220

AM / FM
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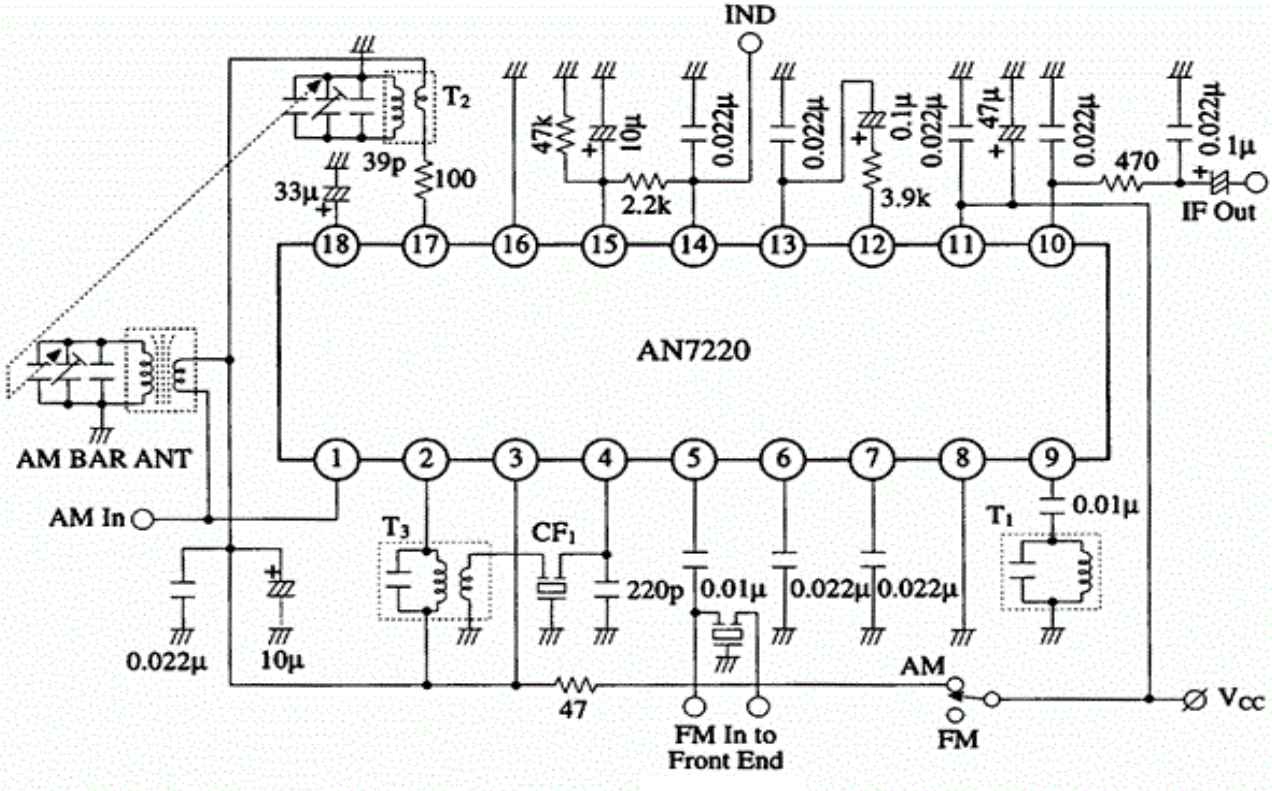


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

AM / FM ARA FREKANS AMPLİFİKATÖRÜ (RADYO)



AN7310N

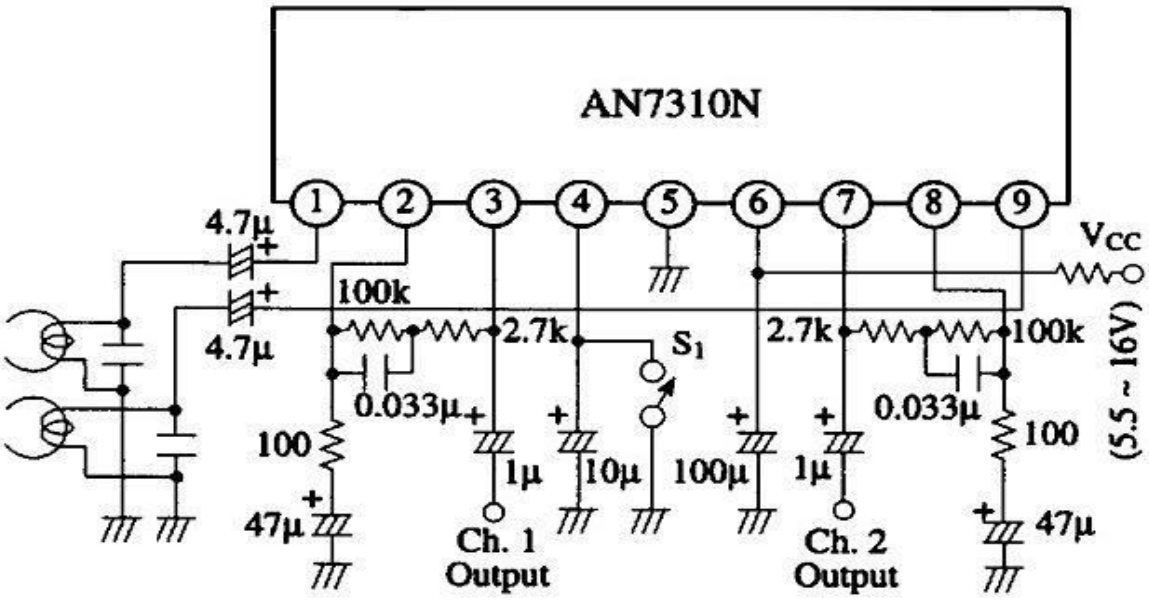
TEYP PREAMPLİFİKATÖRÜ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

TEYP PREAMPLİFİKATÖRÜ

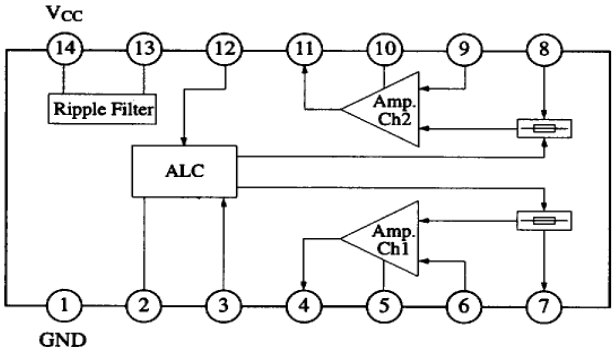


AN7312

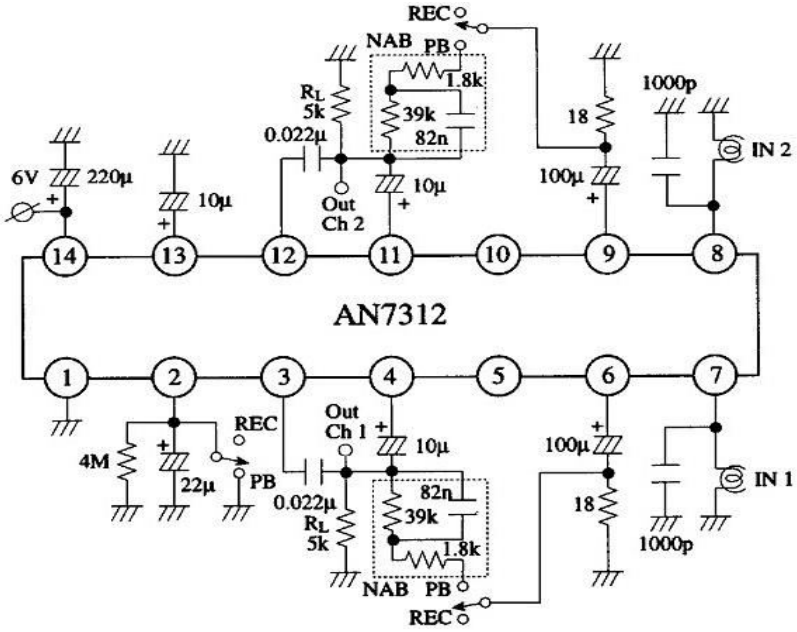
TEYP KAYIT VE OKUMA PREAMLİFİKATÖRÜ



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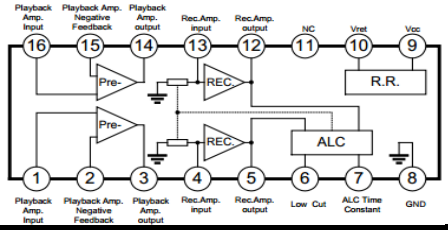


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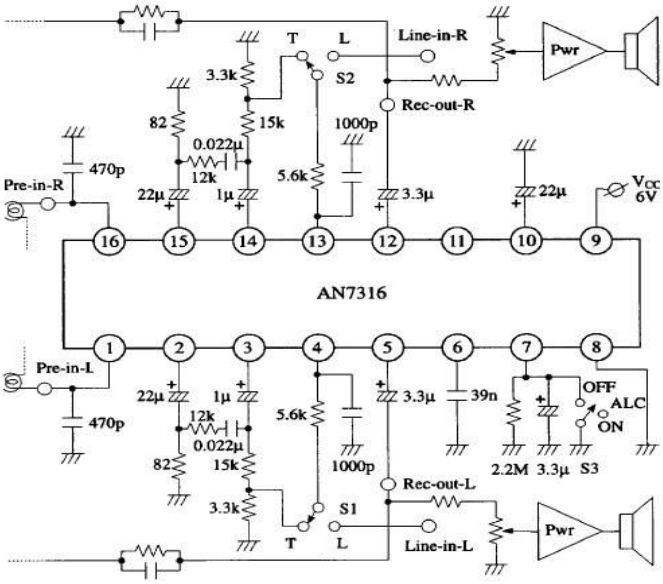
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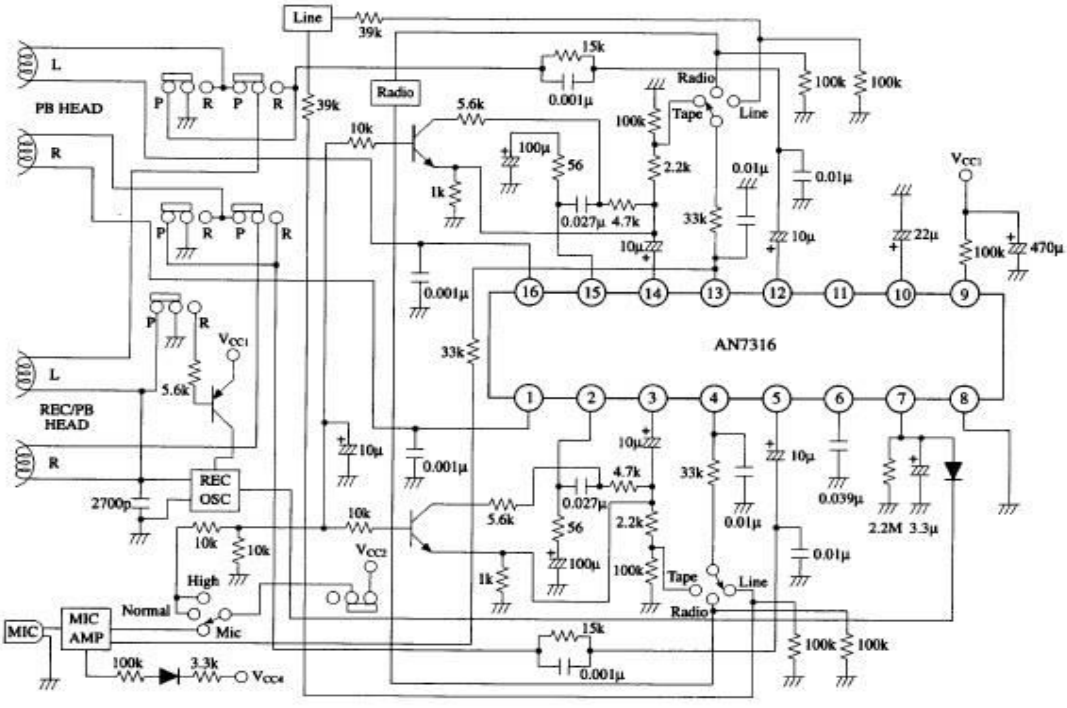


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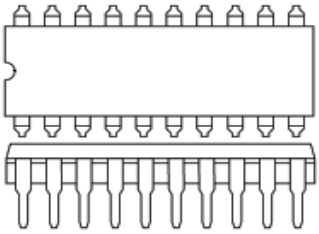
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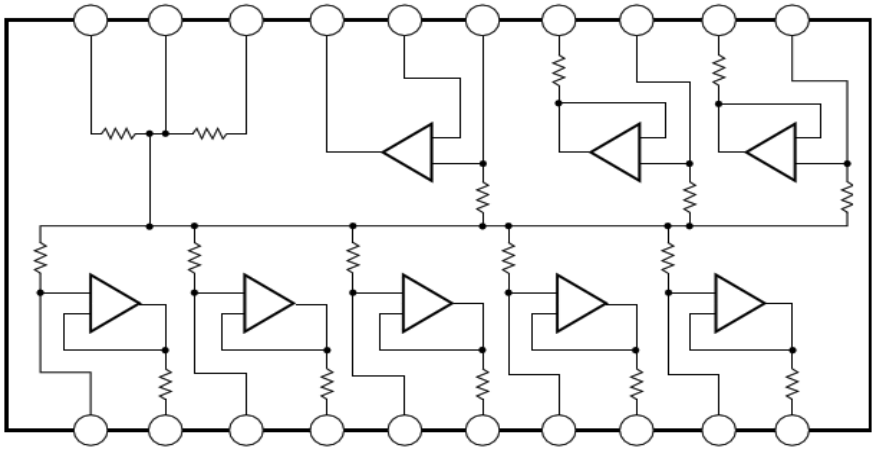


AN7337N

7 BAND
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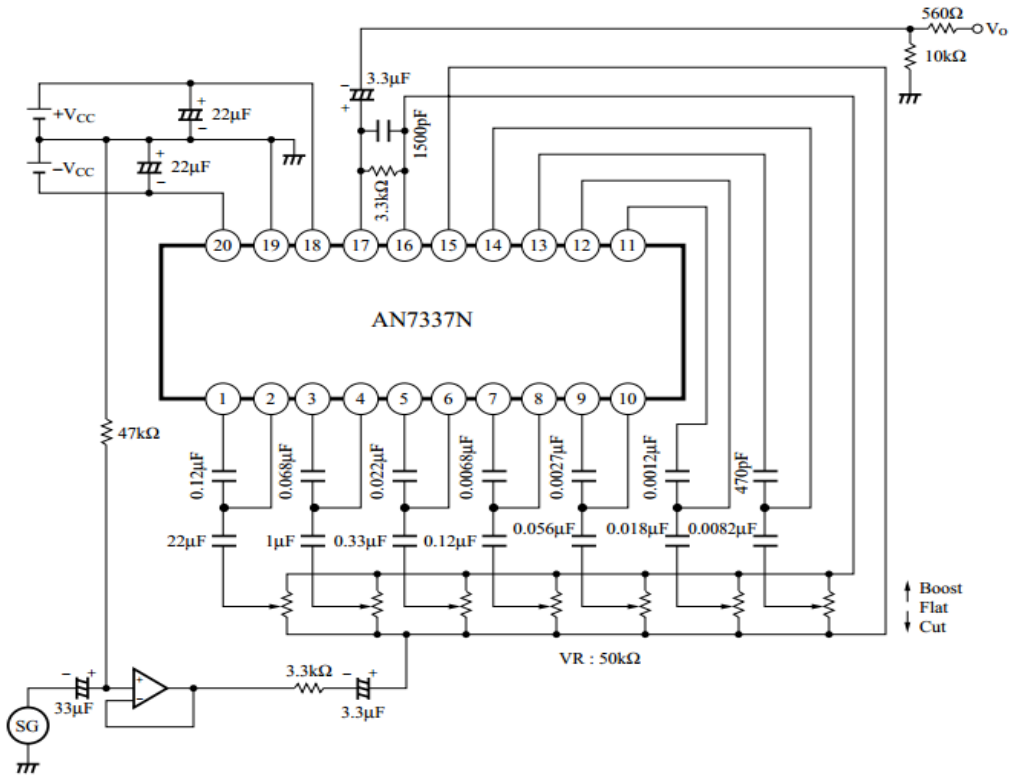


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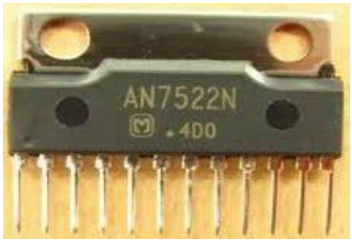
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7 BAND GRAFİK EQUALİZER

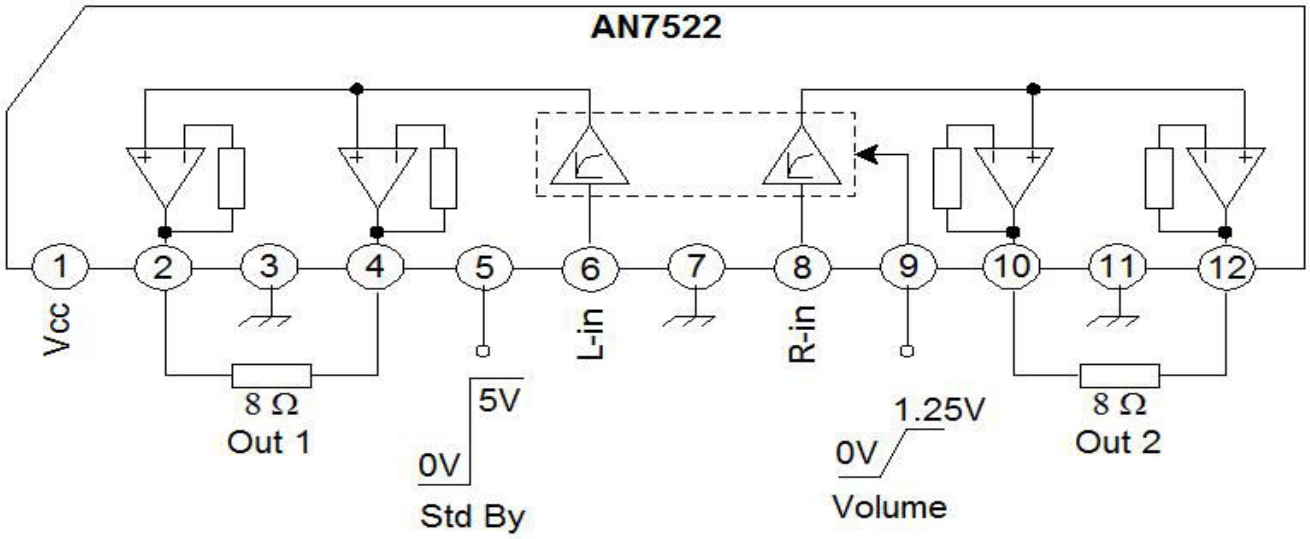


AN7522

3 WATT
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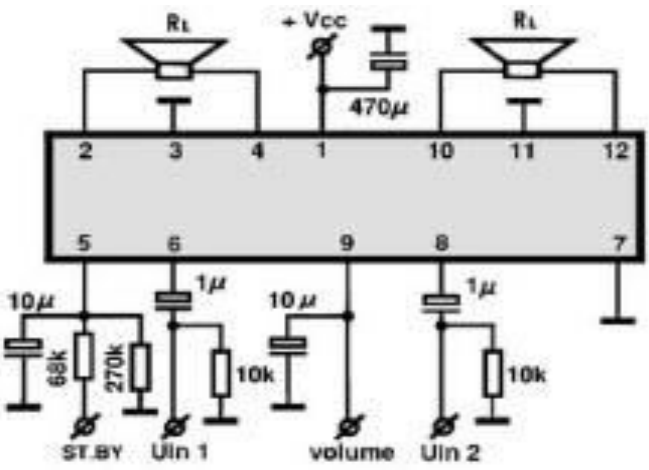


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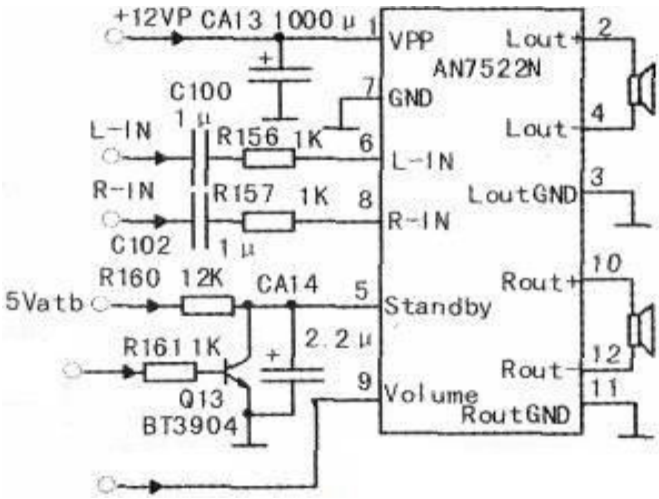


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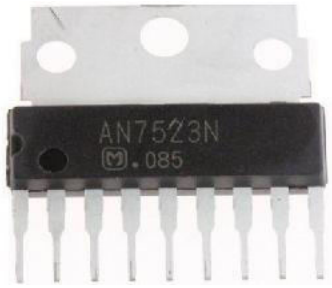


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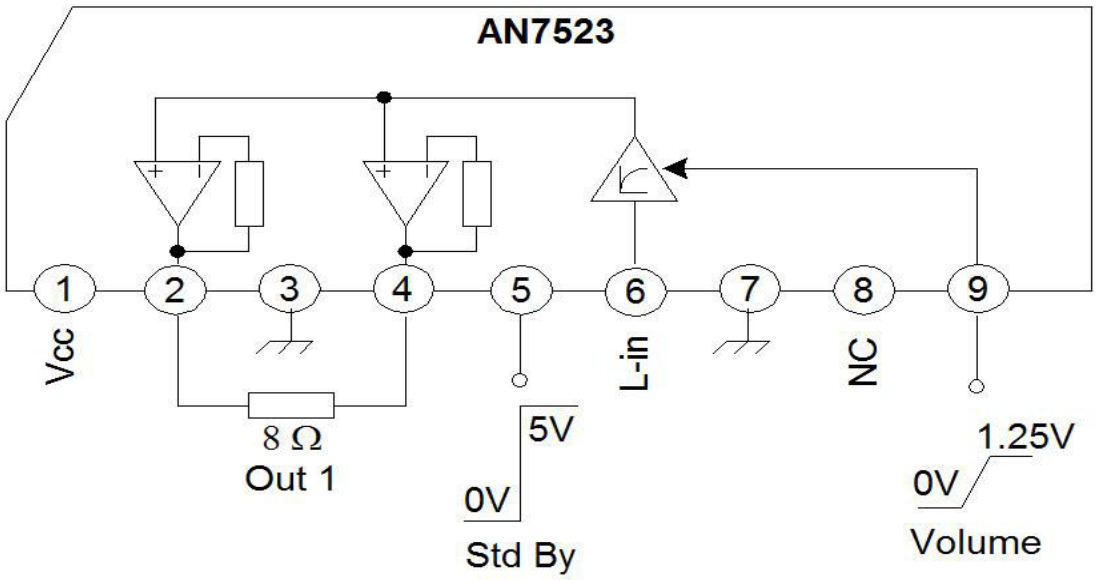


AN7523

3 WATT
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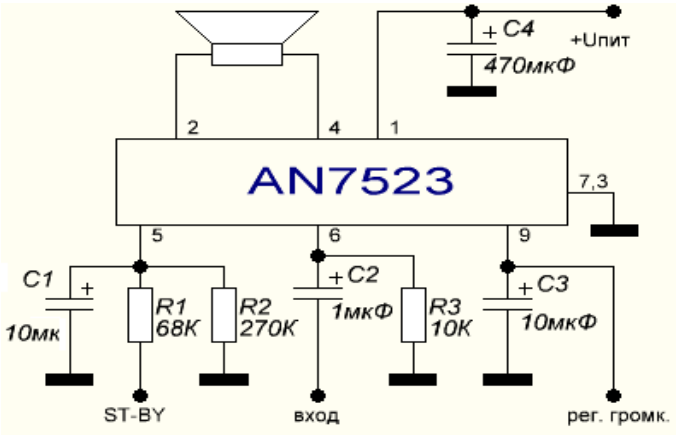


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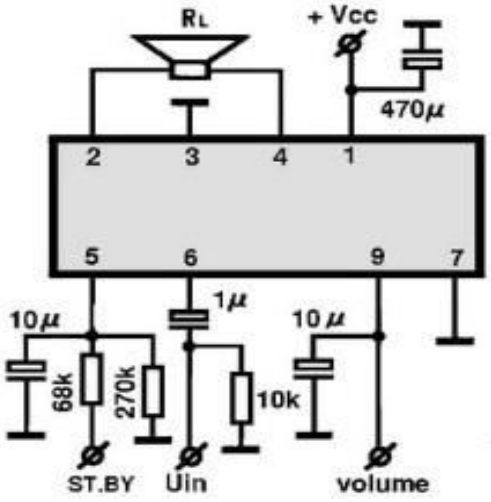


ÇEŞİTLİ DEVRE ŞEMALARI

3 WATT MONO AMPLİFİKATÖR



3 WATT MONO AMPLİFİKATÖR



APR9301V2

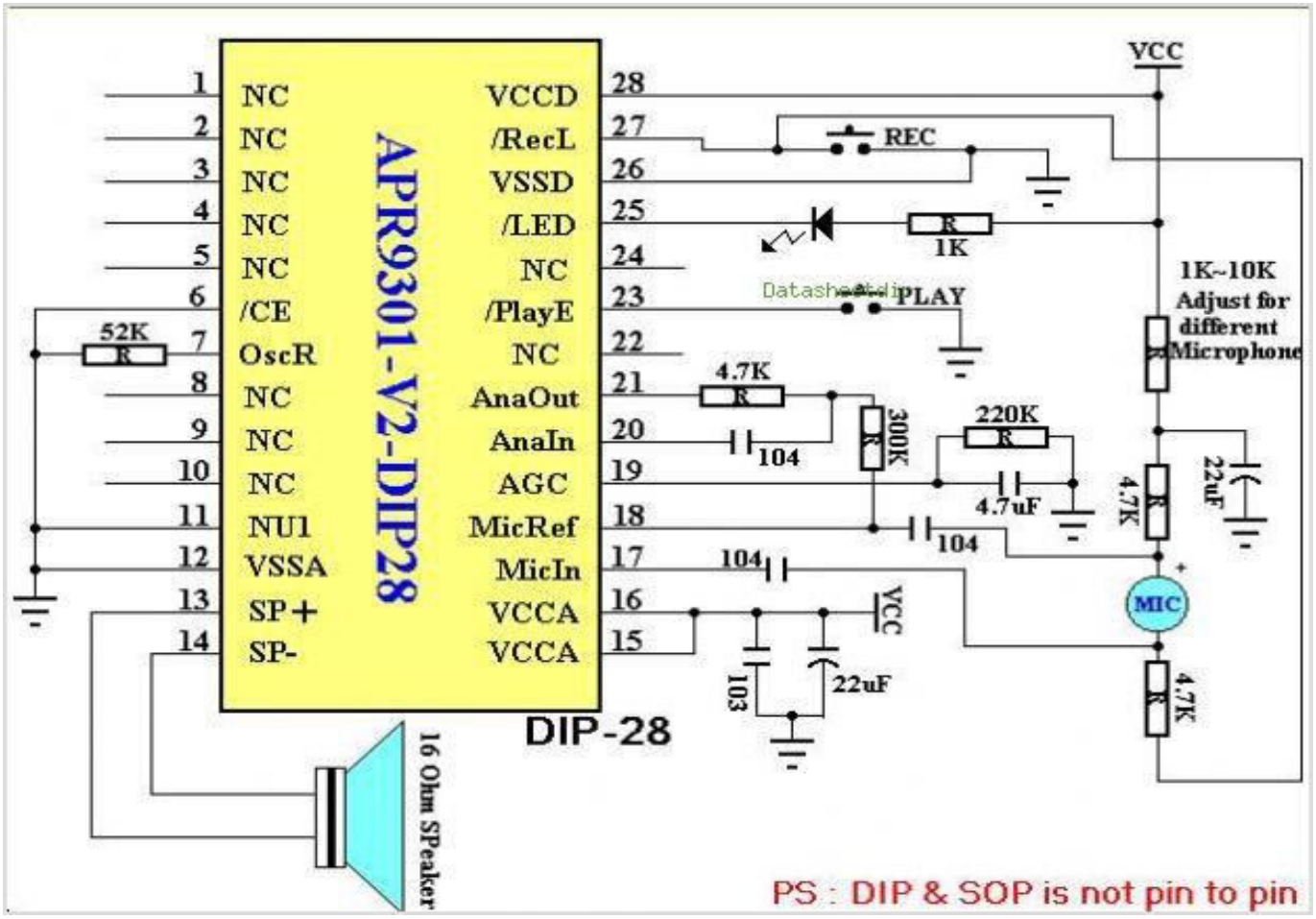
SES KAYDEDİCİ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

SES KAYDEDİCİ



APR9600

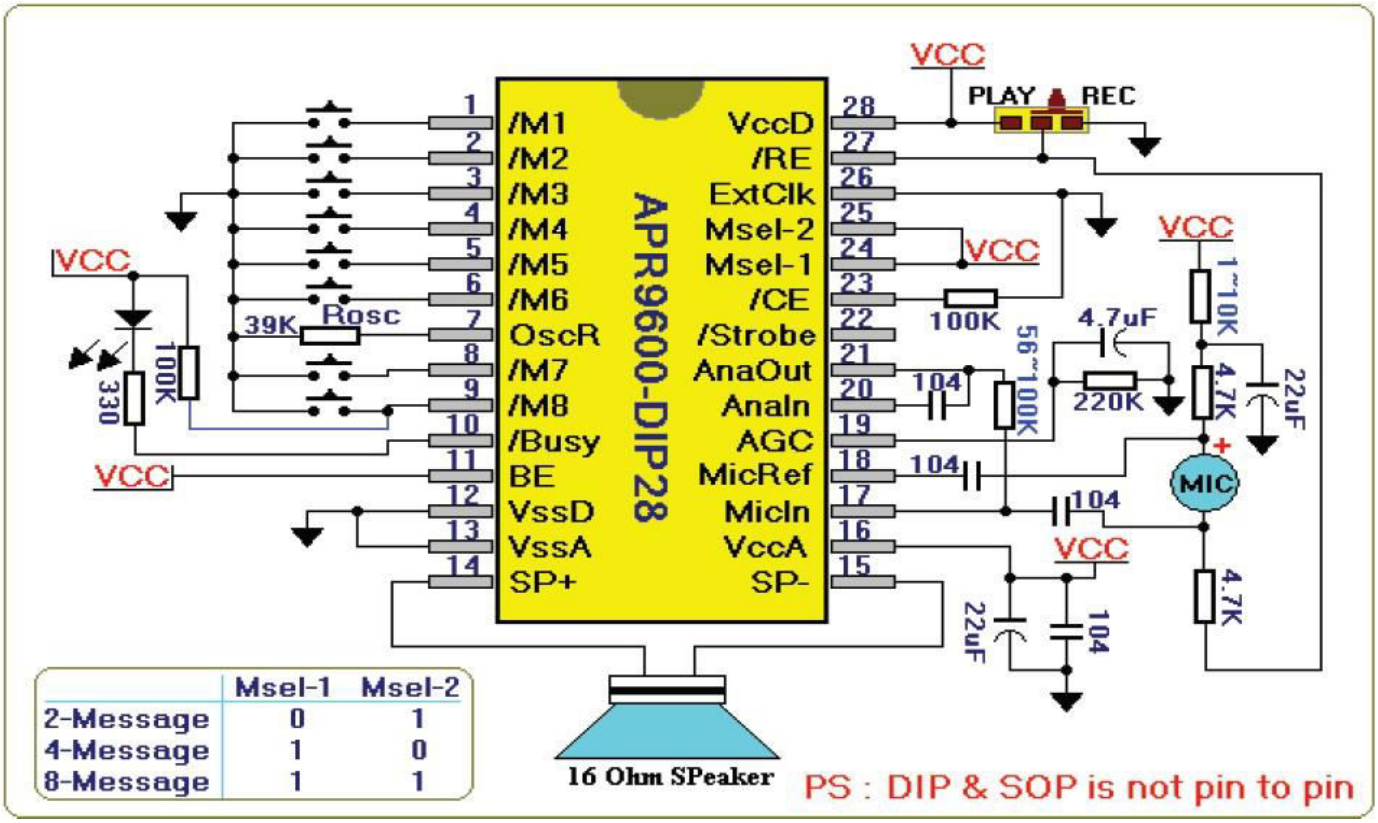
SES KAYDEDİCİ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

SES KAYDEDİCİ



	Msel-1	Msel-2
2-Message	0	1
4-Message	1	0
8-Message	1	1

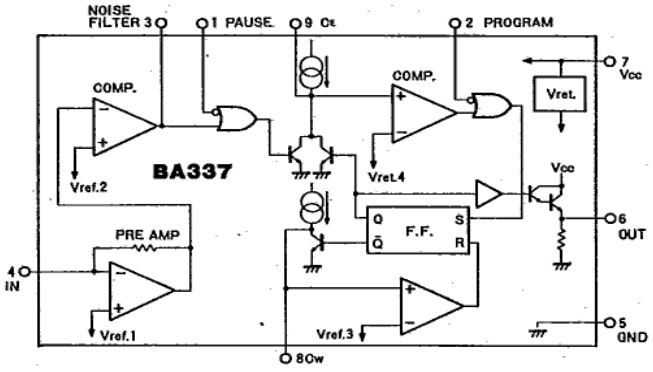
BA337

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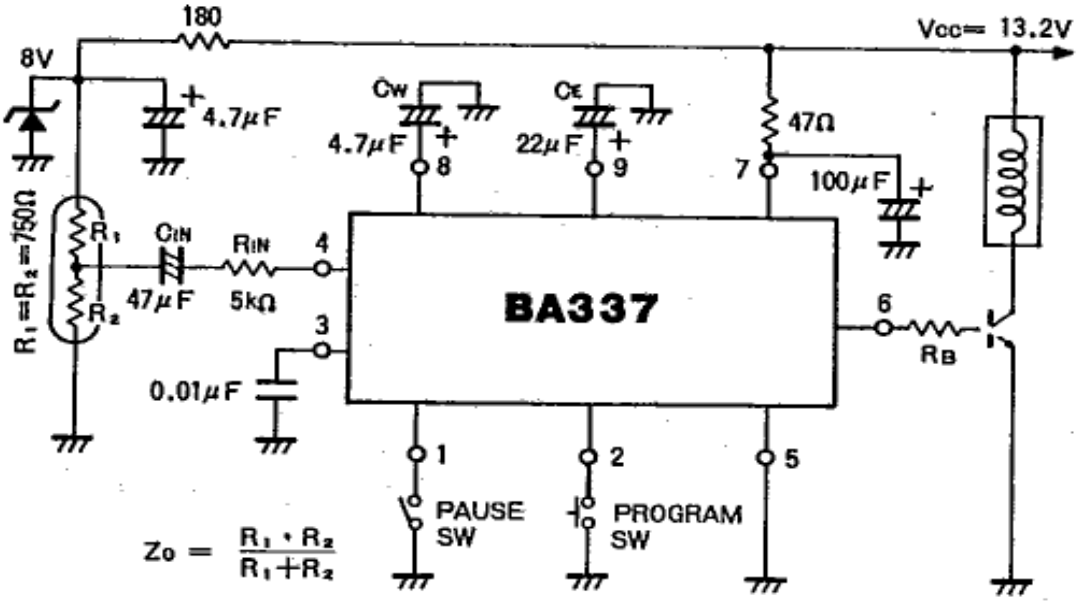
KASET ÇEVİRME KONTROLCÜSÜ



İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



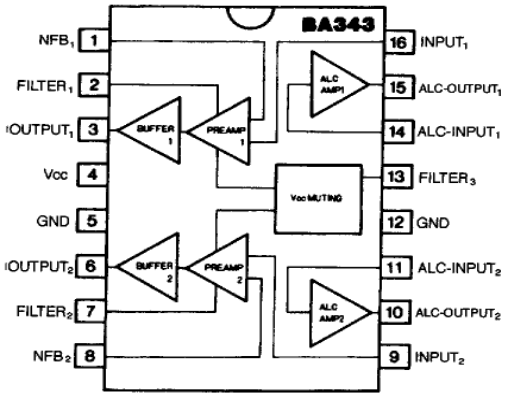
BA343

STEREO

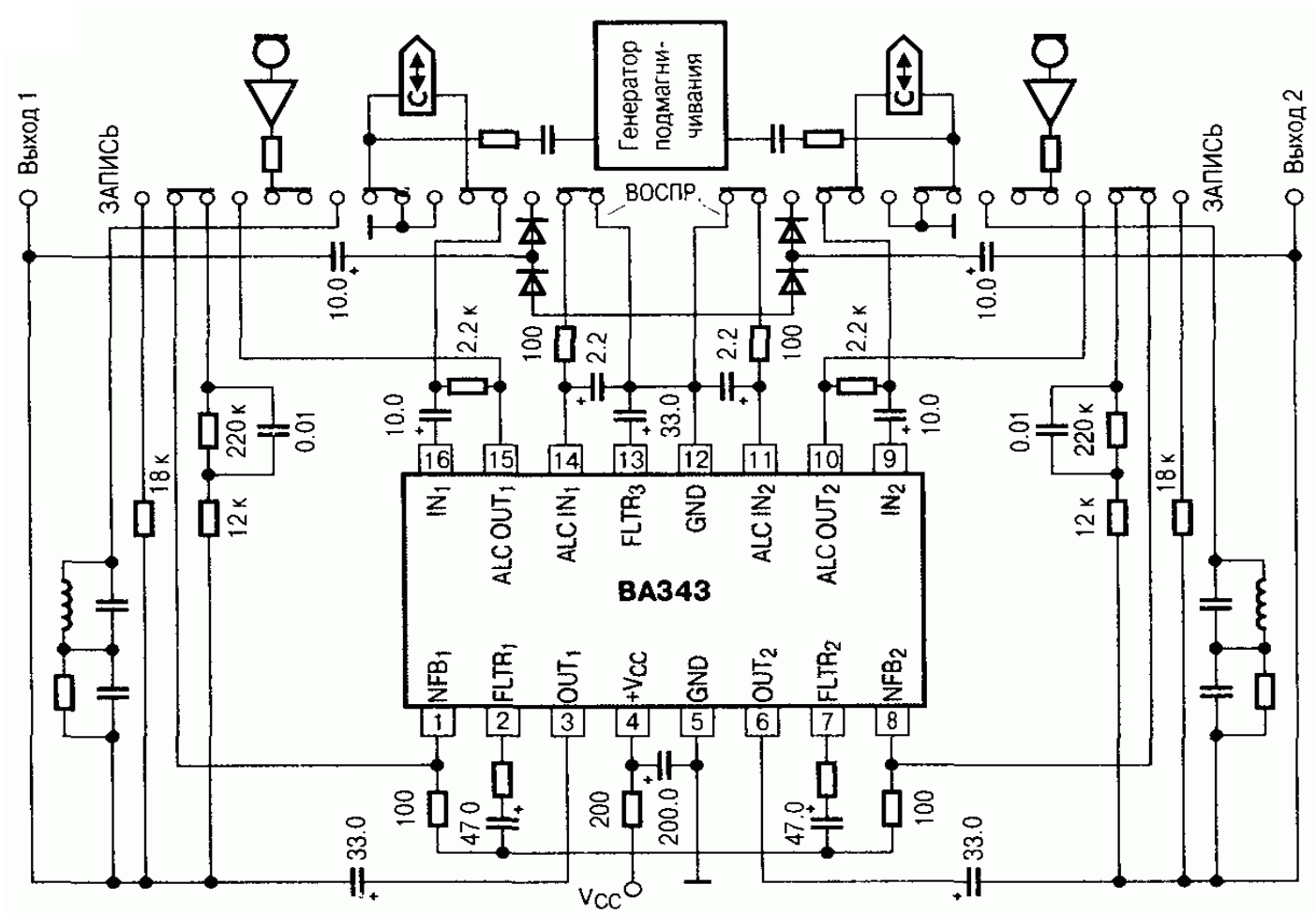
PREAMPLİFİKATÖR



İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

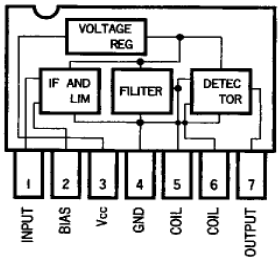


BA403

FM IF (ARA FREKANS) AMPLİFİKATÖRÜ

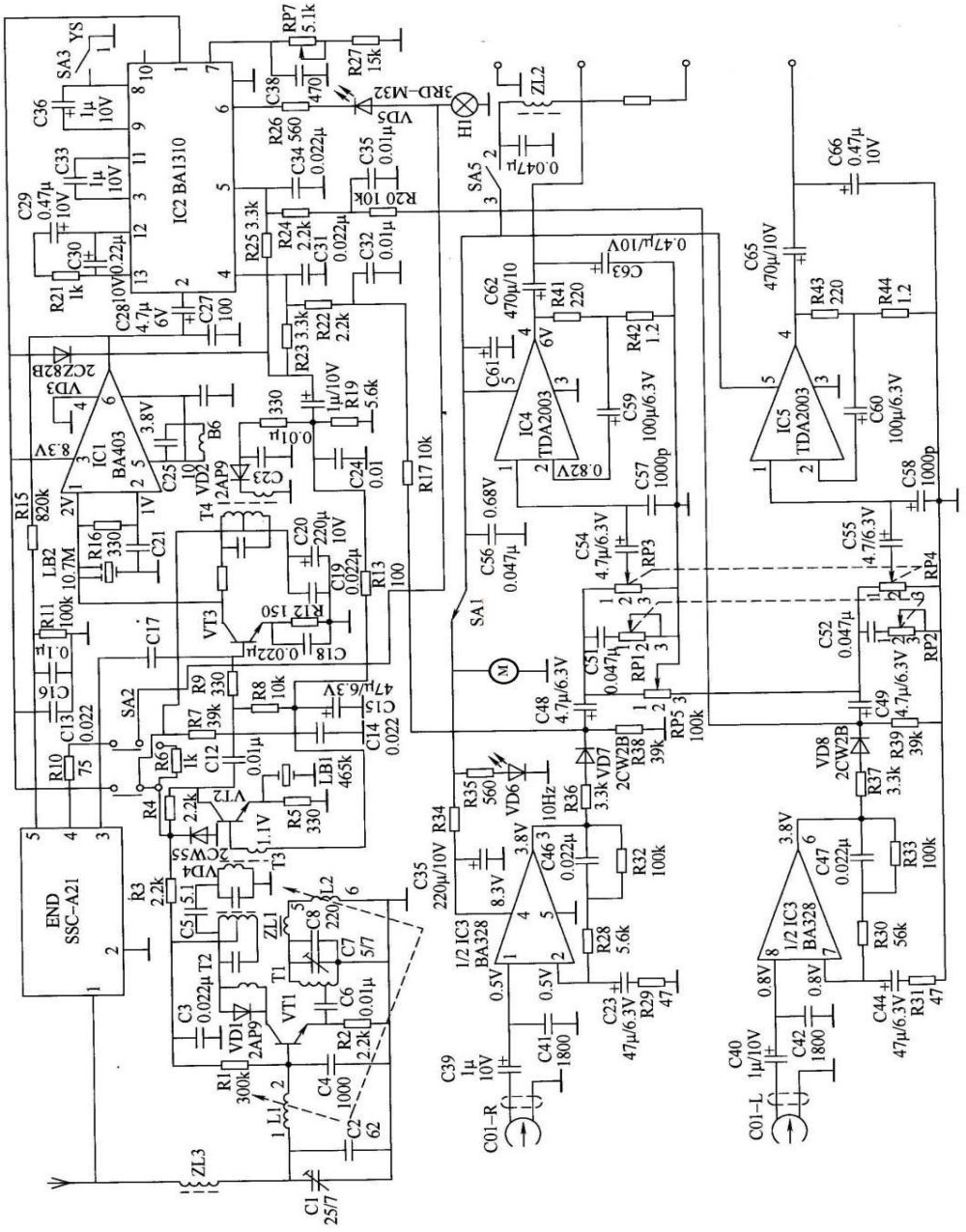


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RADYO TEYP



BA501

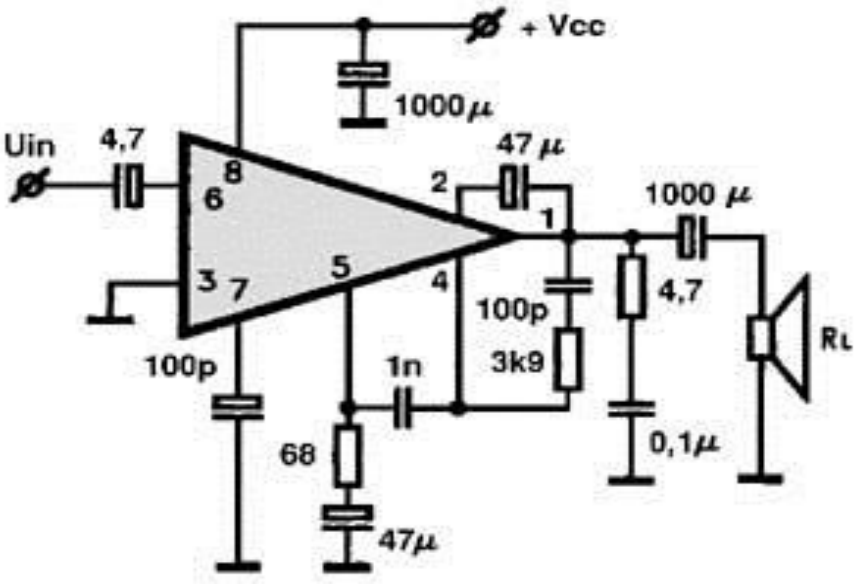
4 WATT
MONO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

4 WATT MONO AMPLİFİKATÖR



BA521

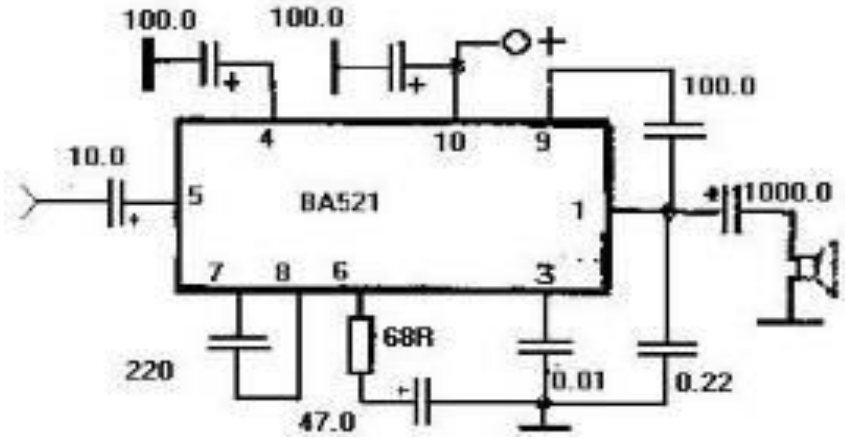
6 WATT
MONO AMPLİFİKATÖR



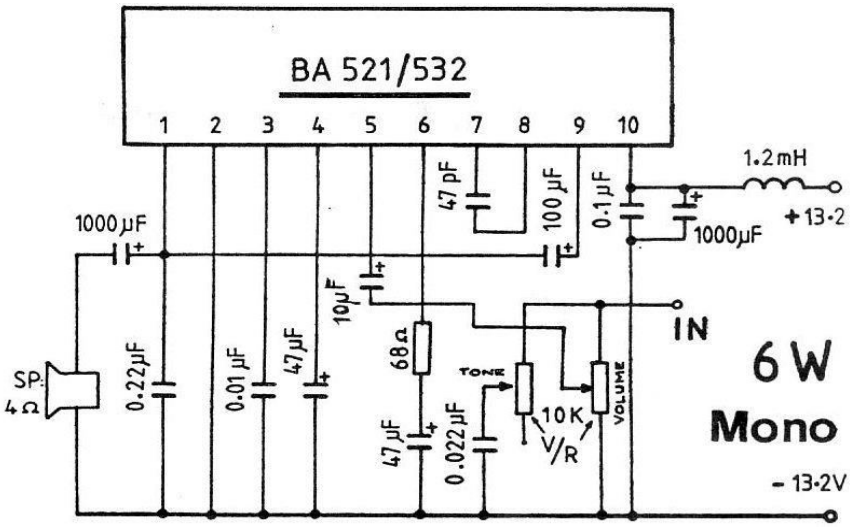
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ÇEŞİTLİ DEVRE ŞEMALARI

6 WATT MONO AMPLİFİKATÖR



6 WATT MONO AMPLİFİKATÖR

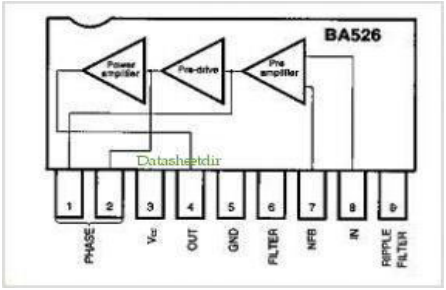


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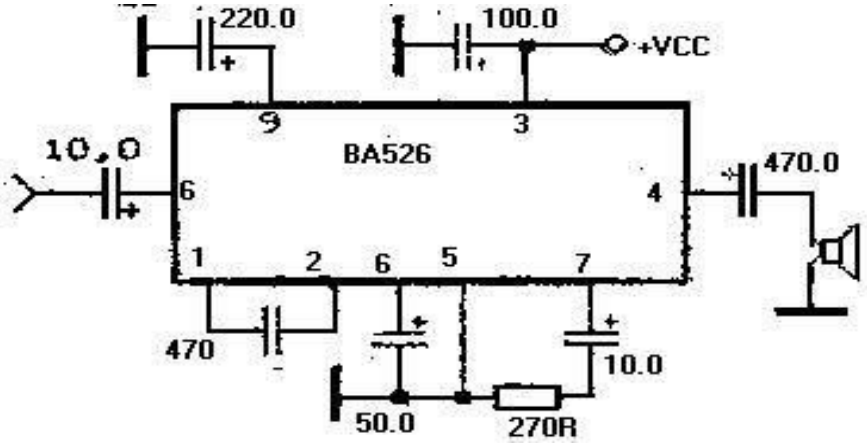
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AMPLİFİKATÖR

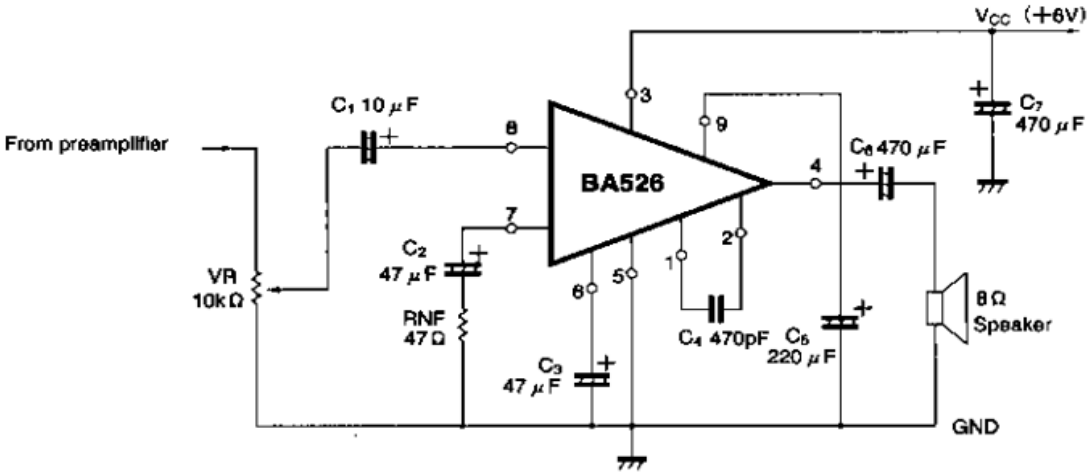


İÇ YAPISI



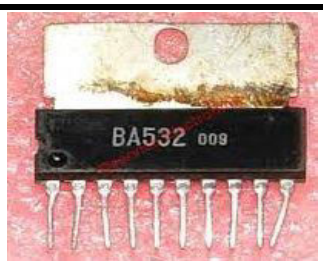
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BA532

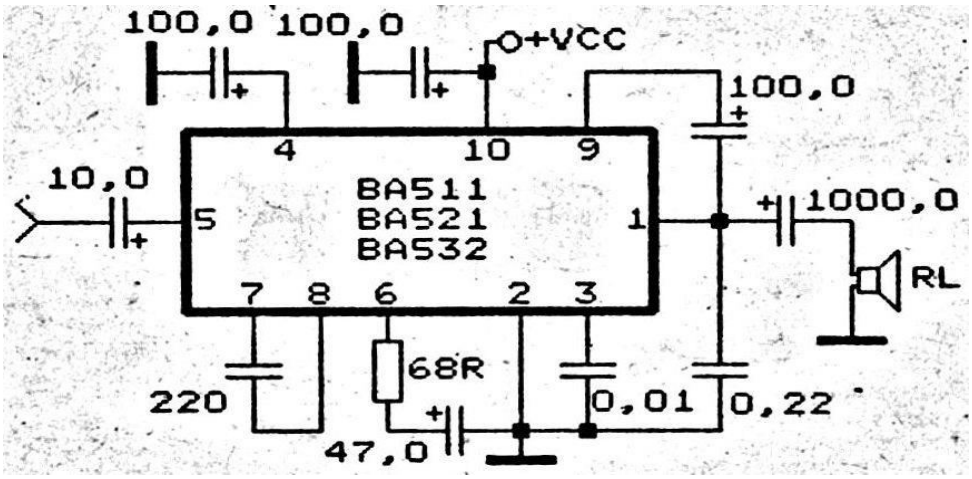
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MONO AMPLİFİKATÖR



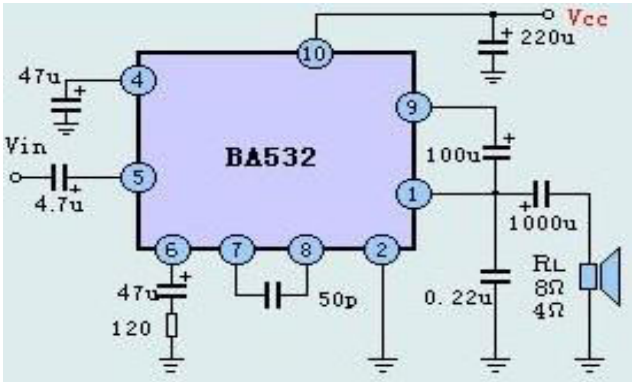
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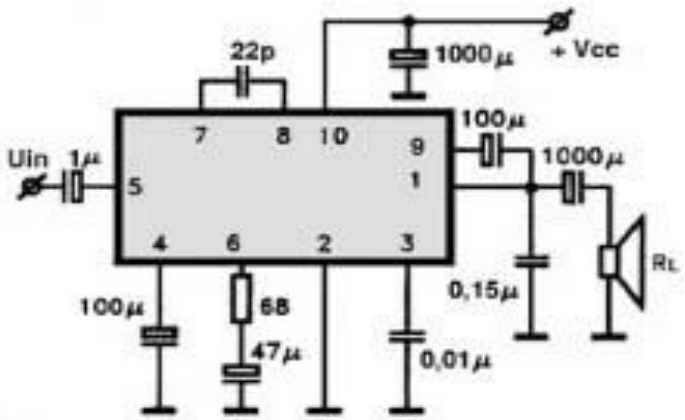
5.8 WATT MONO AMPLİFİKATÖR



5.8 WATT MONO AMPLİFİKATÖR



5.8 WATT MONO AMPLİFİKATÖR

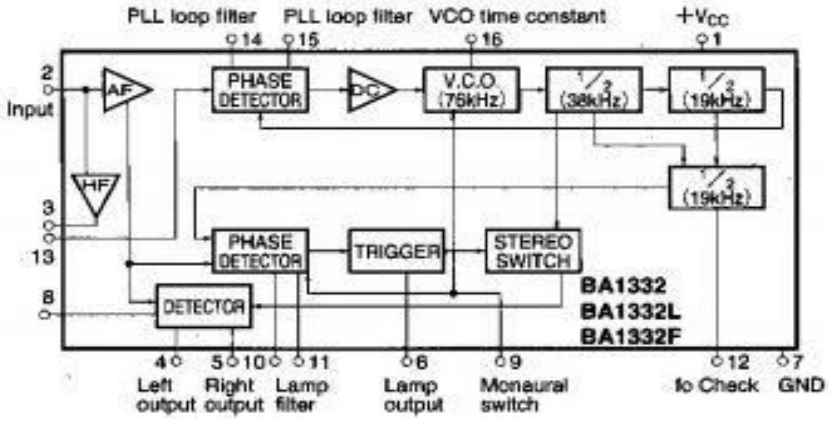


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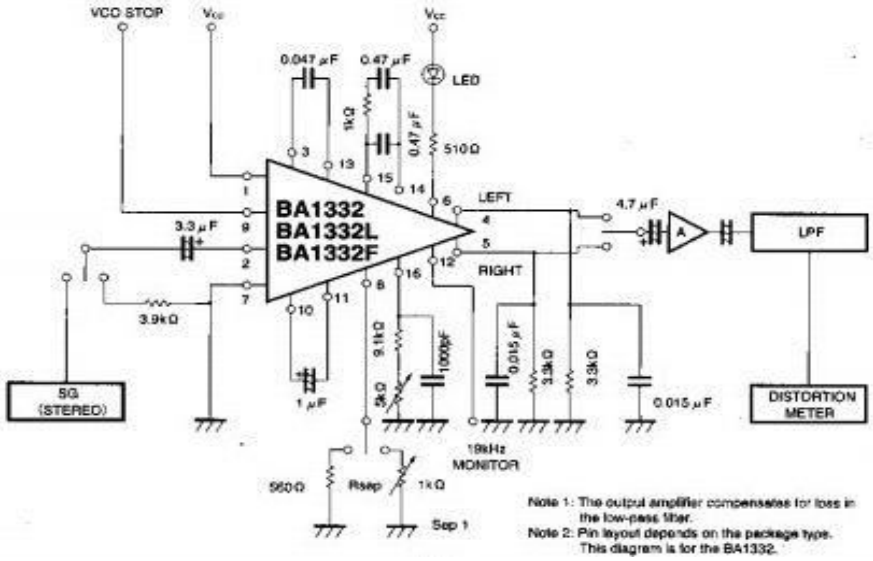
FM STEREO DEMODÜLATÖR



İÇ YAPISI



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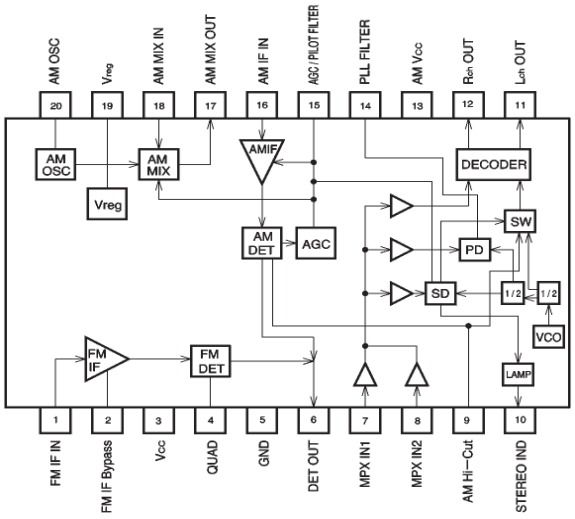
BA1442

AM / FM

IF STEREO SİSTEM

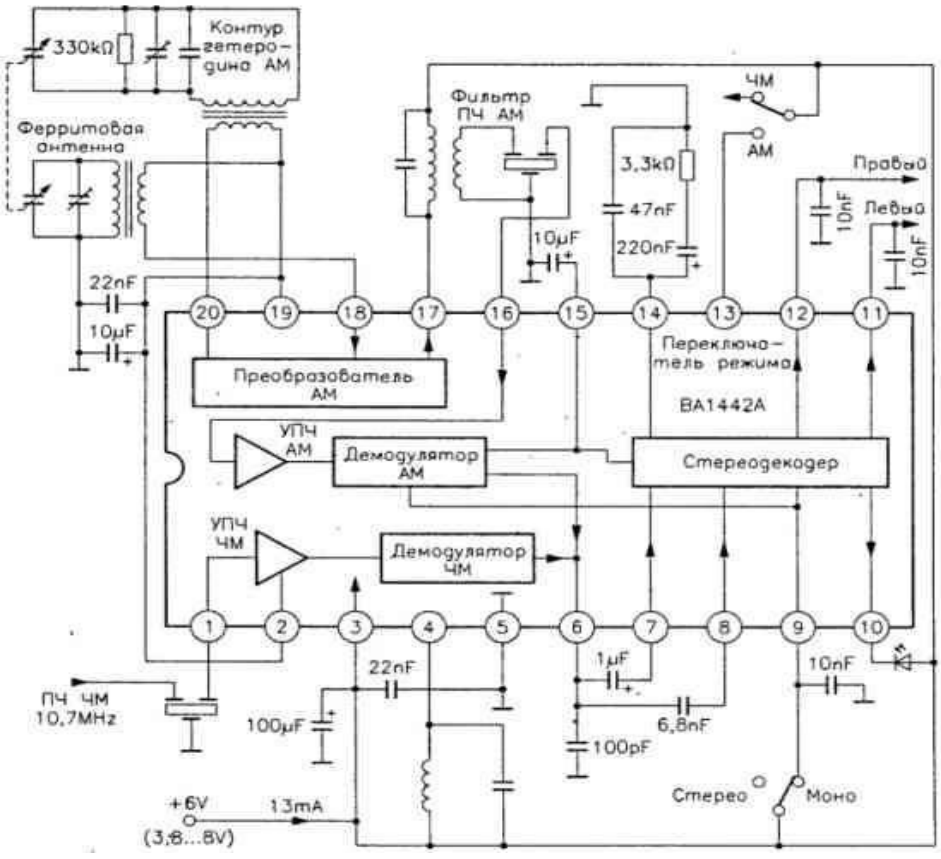


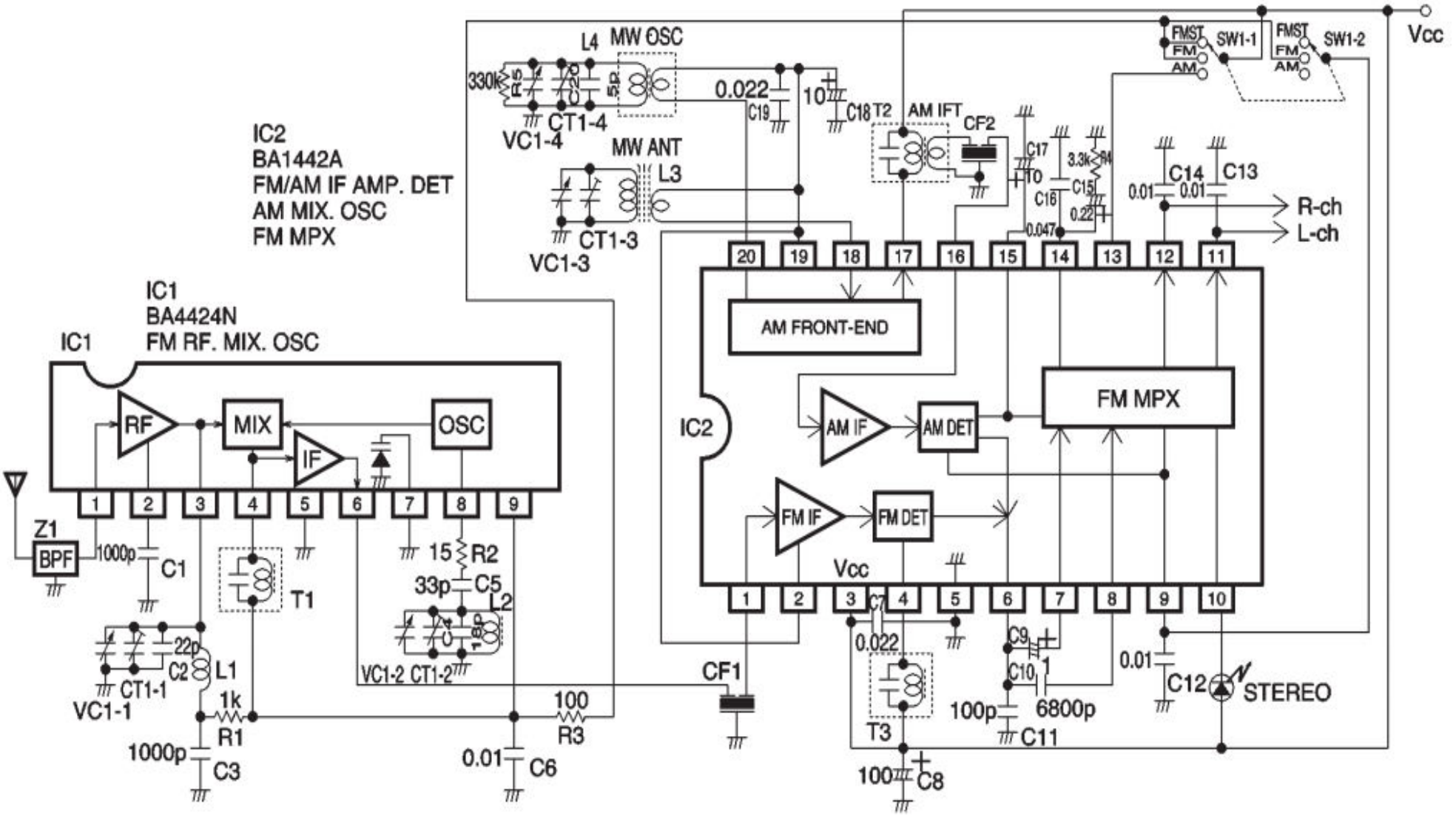
İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

AM / FM IF STEREO SİSTEM




IC2
BA1442A
FM/AM IF AMP. DET
AM MIX. OSC
FM MPX
IC1
BA4424N
FM RF. MIX. OSC
IC1
RF
MIX
OSC
IF
IC2
AM FRONT-END
AM IF
AM DET
FM MPX
FM IF
FM DET
Vcc
L4 MW OSC
330k R5
C20 5p
VC1-4
CT1-4
0.022 C19
10 C18
T2 AM IFT
CF2
MW ANT
L3
CT1-3
VC1-3
C17 10
C16 0.047
C15 0.22
3.3k R4
C14 0.01
C13 0.01
R-ch
L-ch
FMST FM AM SW1-1
FMST FM AM SW1-2
Vcc
Z1
BPF
1000p C1
T1
15 R2
33p C5
L2
VC1-2 CT1-2
22p C2
L1
VC1-1
CT1-1
1k R1
1000p C3
0.01 C6
100 R3
CF1
0.022 C7
C9 1
C10
100p
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T3
100 C8
0.01 C12
STEREO

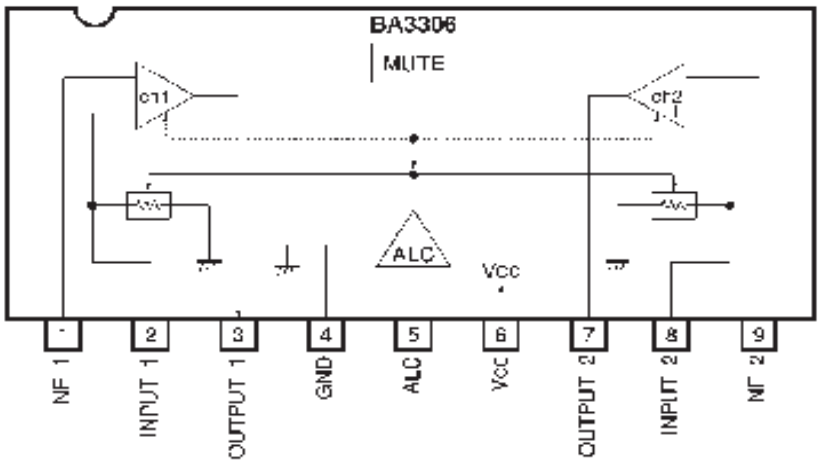
BA3306

STEREO

PREAMPLİFİKATÖR

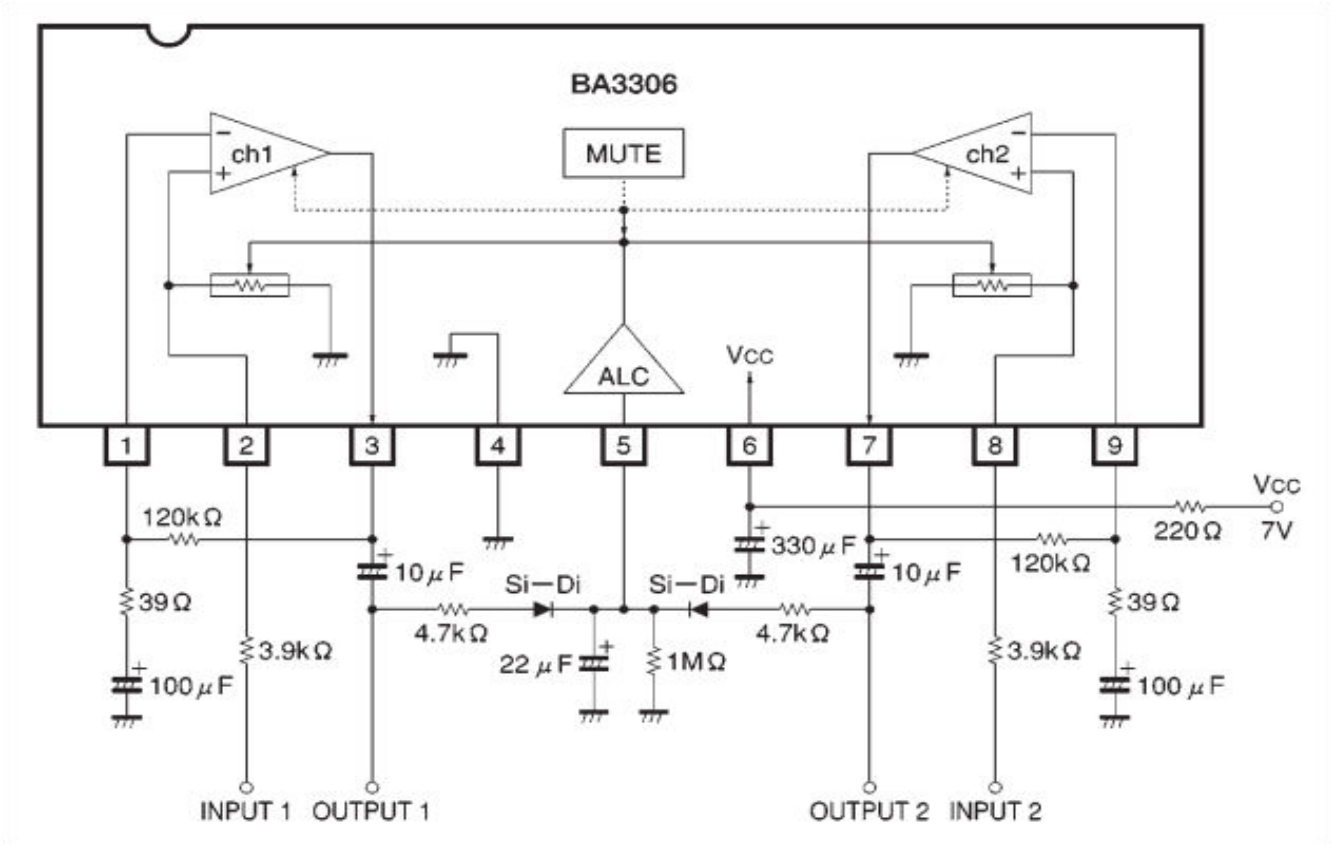


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

STEREO PREAMPLİFİKATÖR



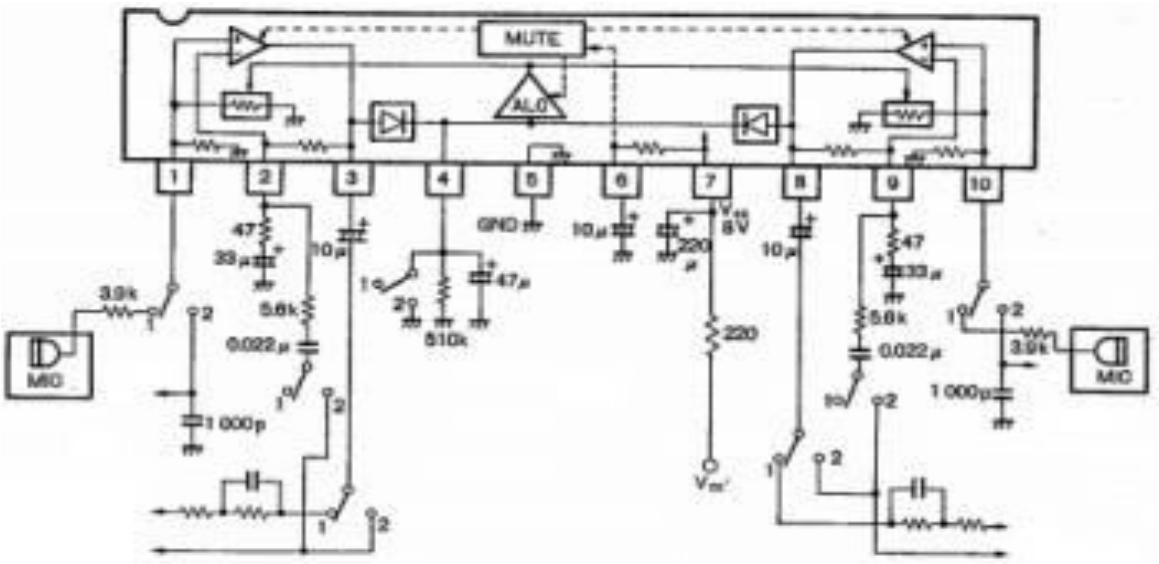
BA3312N

STEREO PREAMPLİFİKATÖR



İÇ YAPISI

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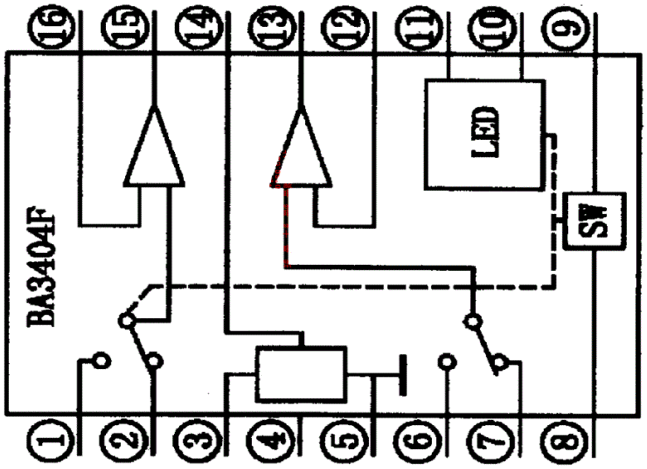
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STEREO

PREAMPLİFİKATÖR

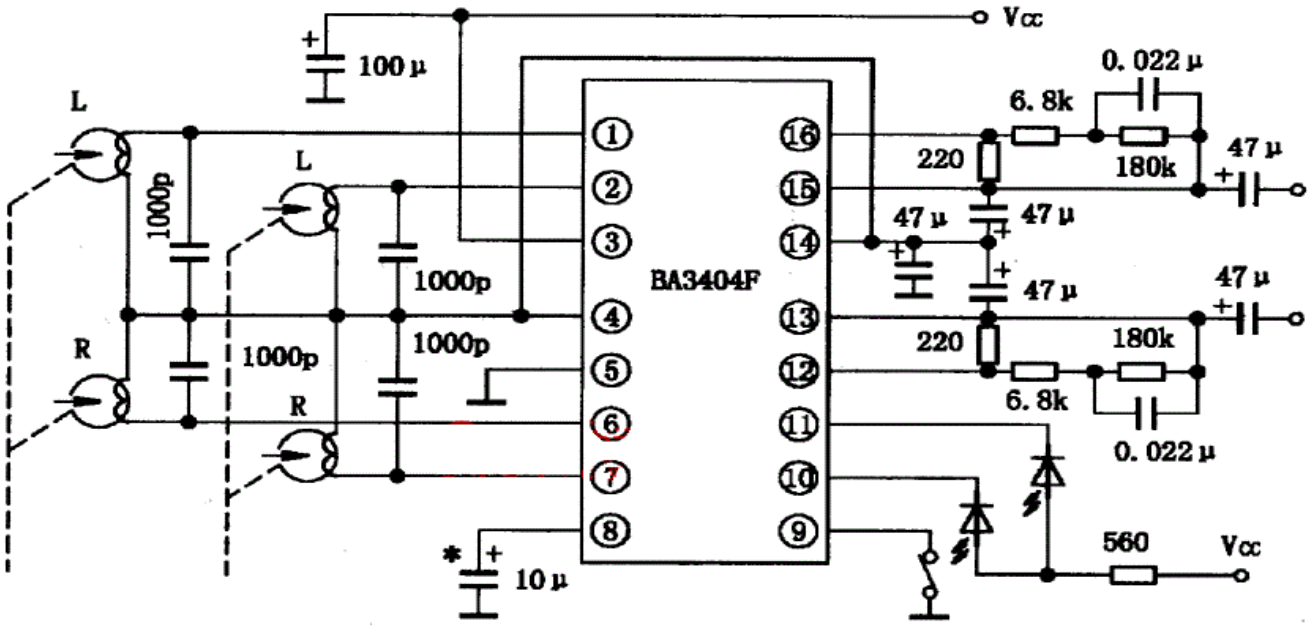


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STEREO PREAMPLİFİKATÖR



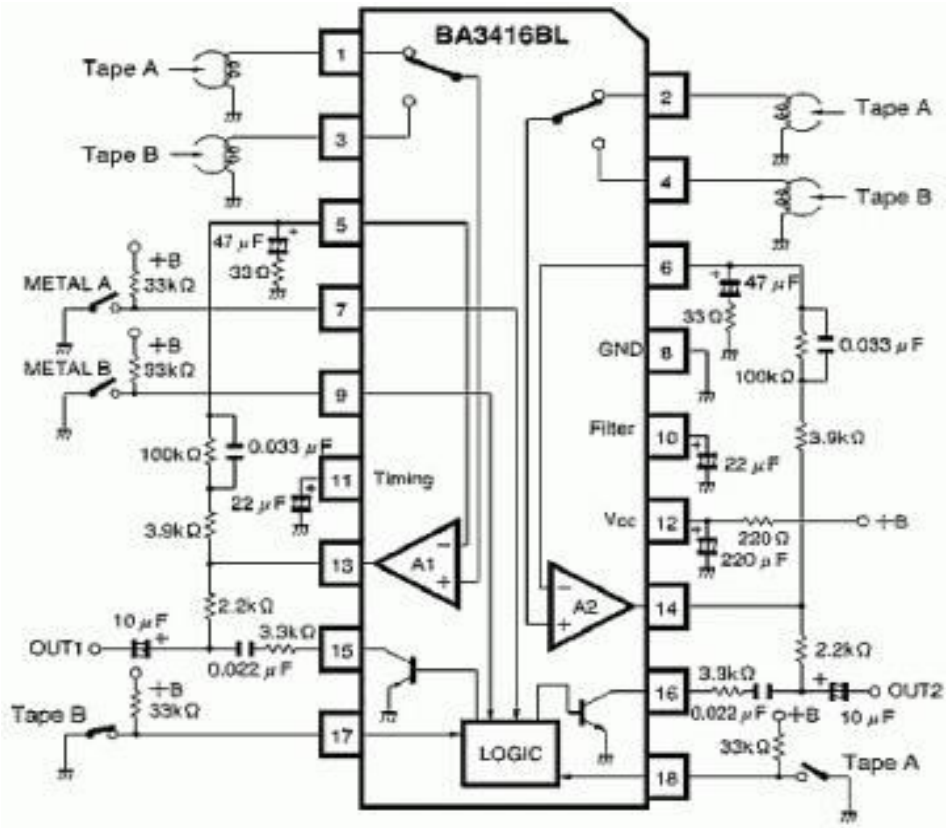
BA3416

TEYP KAYIT / OKUMA
STEREO PREAMPLİFİKATÖR



İÇ YAPISI

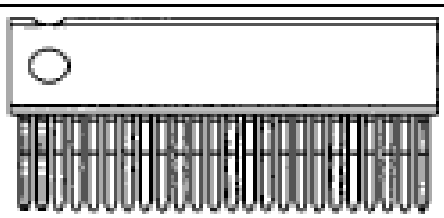
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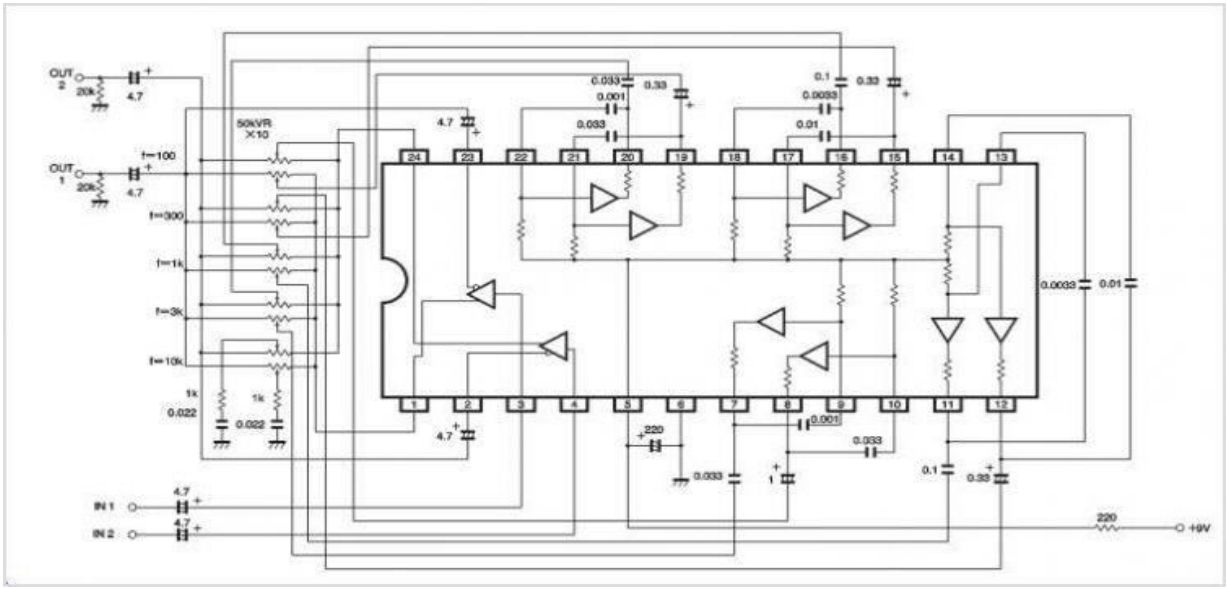
BA3822

5 BAND STEREO

GRAFİK EQUALİZER

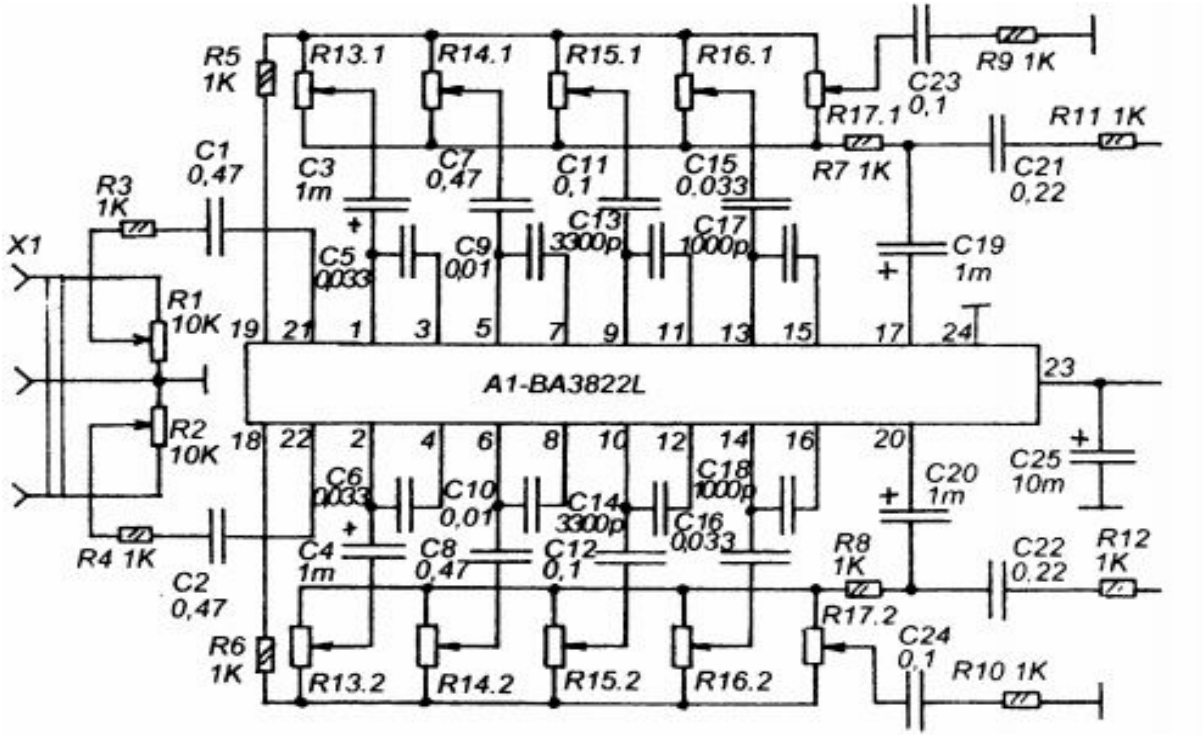


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

5 BAND STEREO GRAFİK EQUALİZER



BA3824LS

4 BAND STEREO

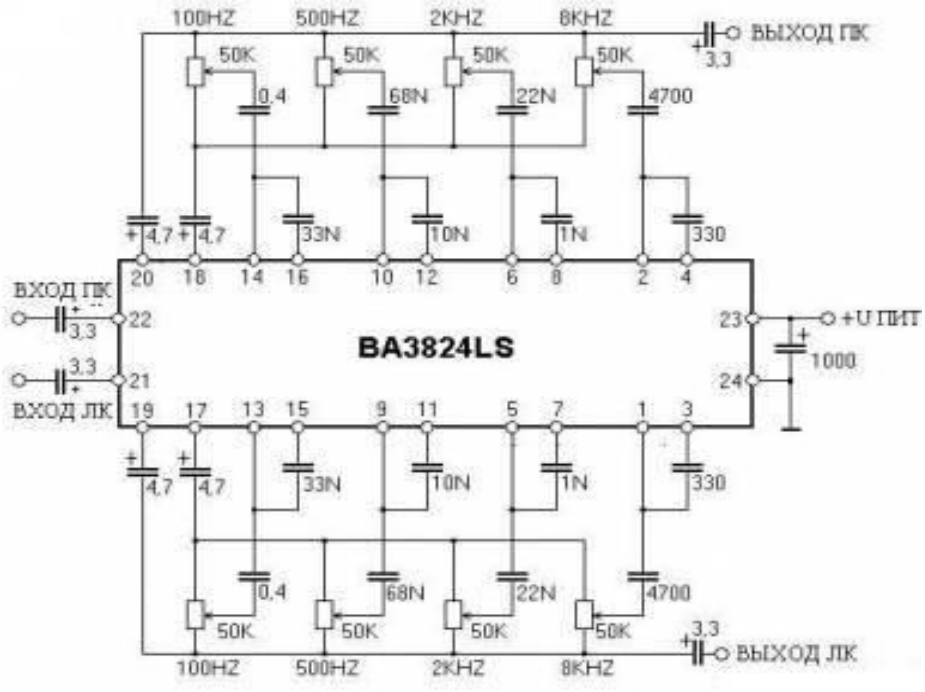
GRAFİK EQUALİZER

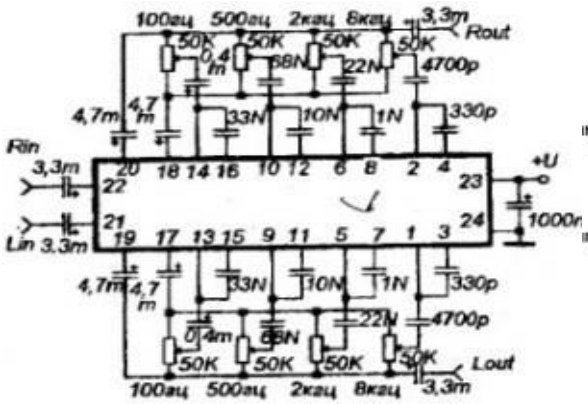


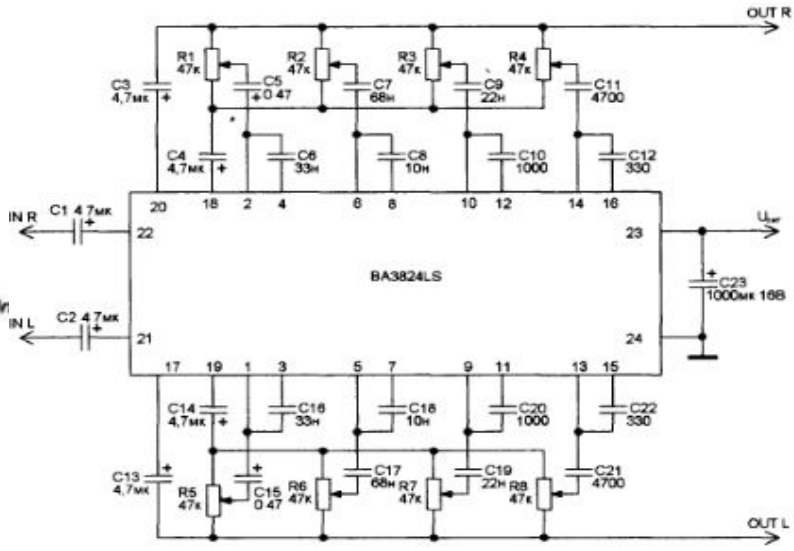
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

4 BAND STEREO GRAFİK EQUALİZER



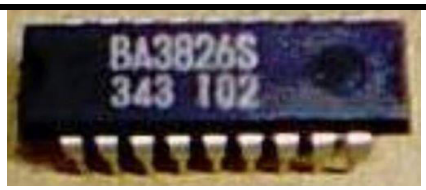




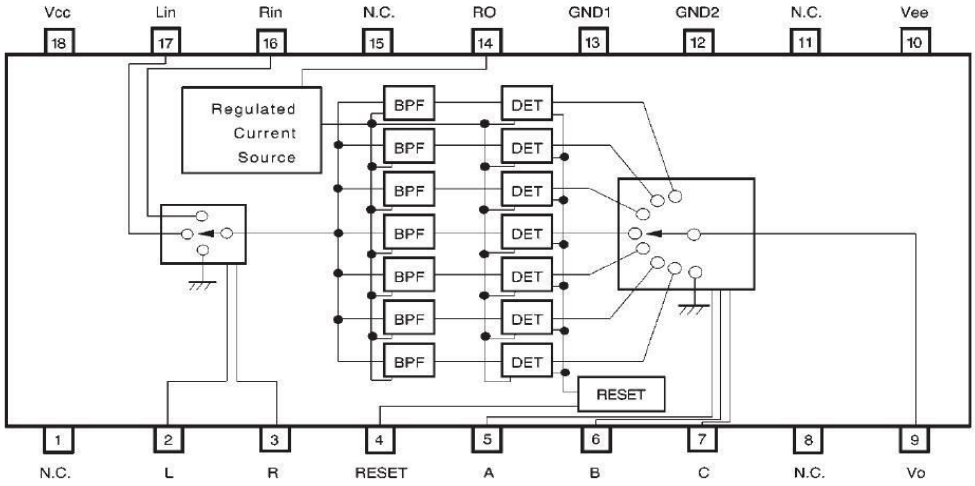
BA3826S

BAND BASTIRAN FİLTRE

VE SPEKTRUM ANALİZCİSİ

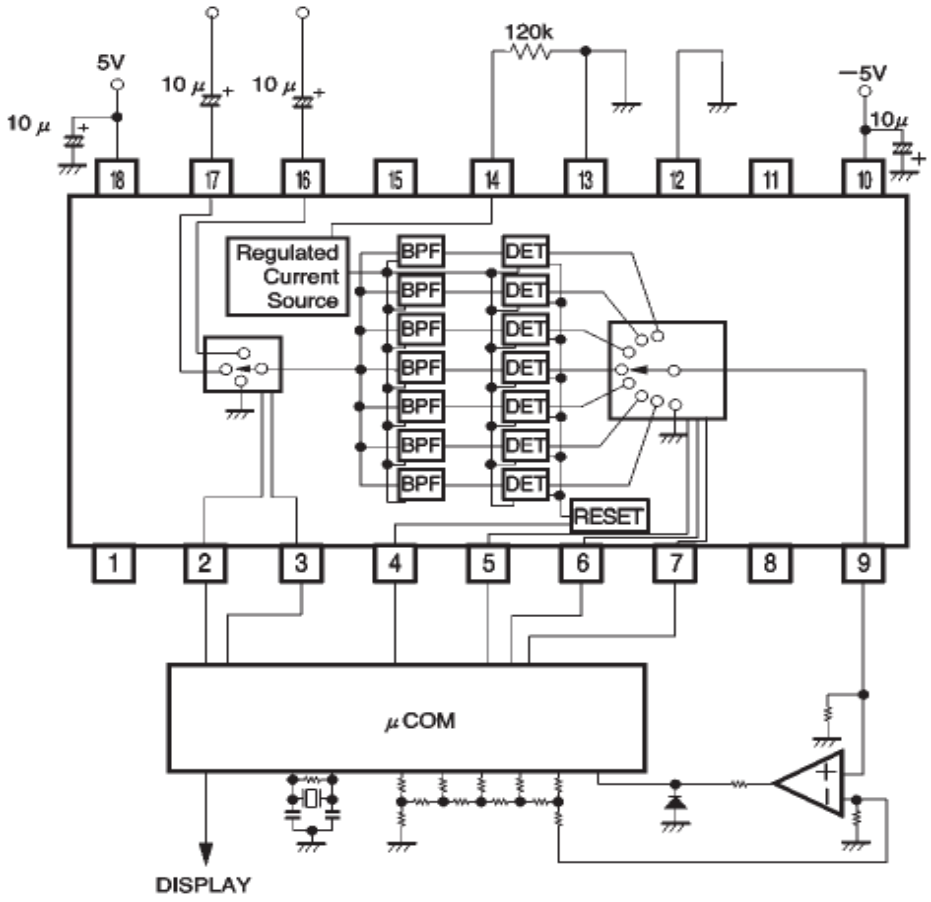


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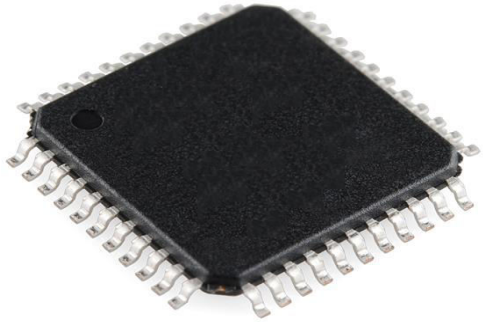
BAND BASTIRAN FİLTRE



BA3840

KULAKLIK İÇİN

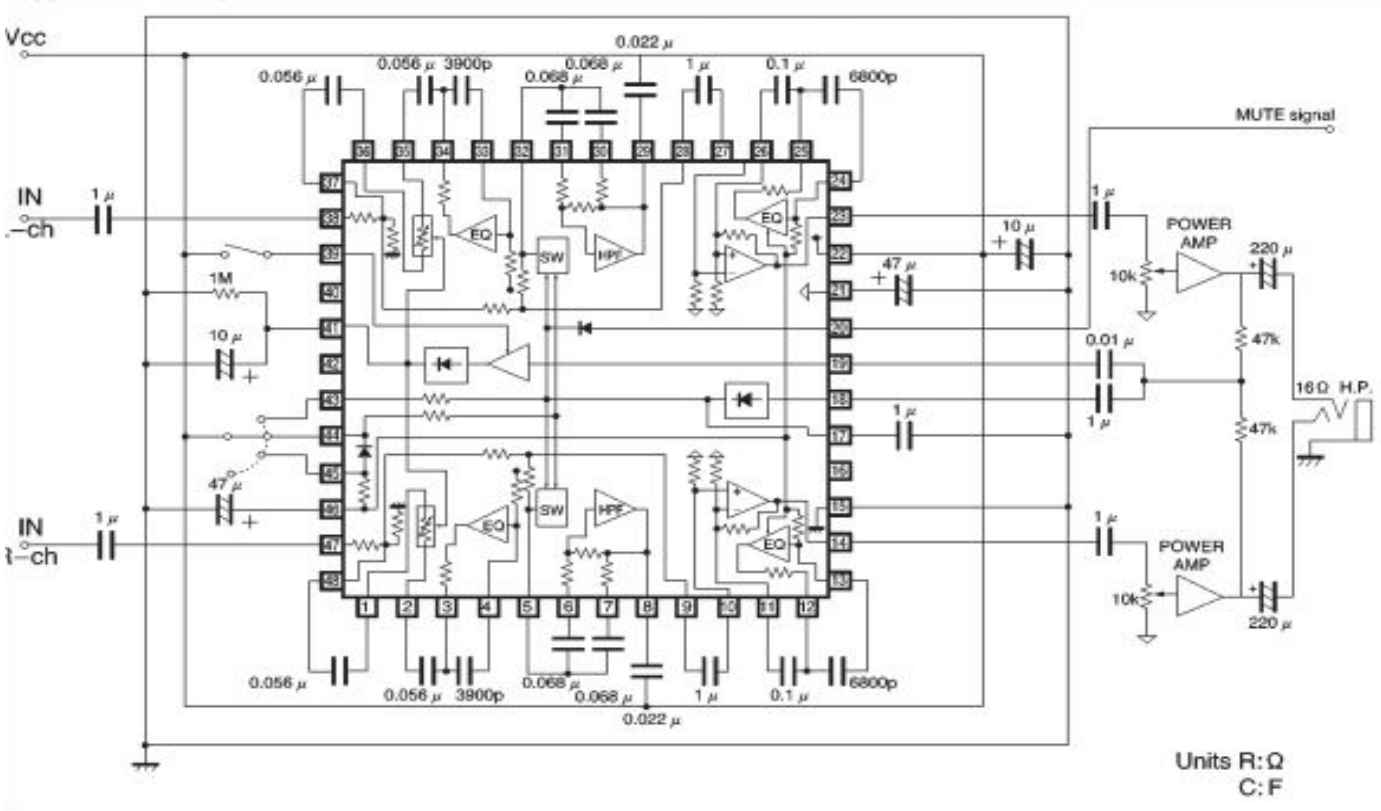
STEREO GRAFİK EQUALİZER



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

KULAKLIK İÇİN STEREO GRAFİK EQUALİZER



BA3842

EQUALİZER

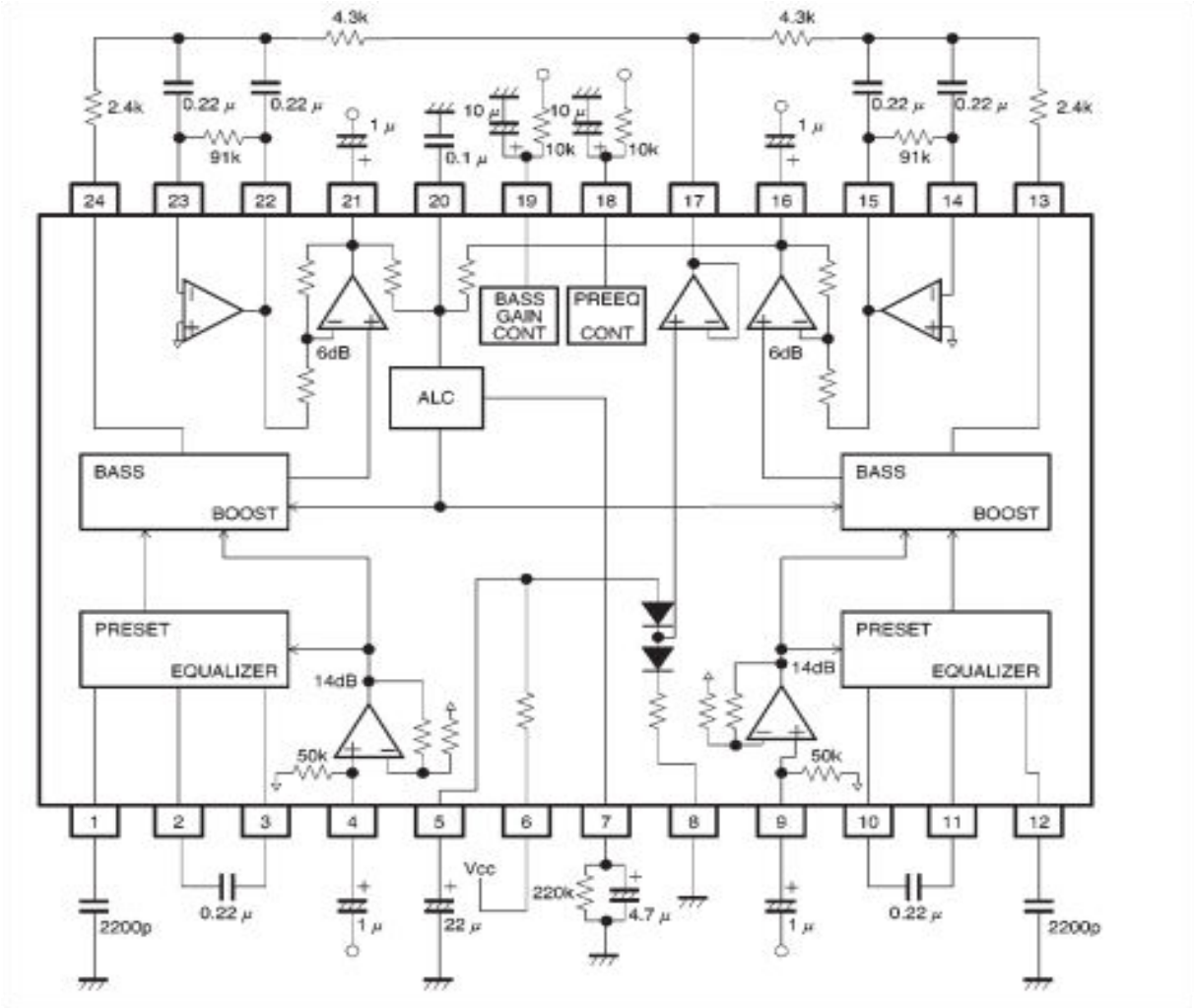
VE SES KONTROLÜ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

EQUALİZER VE SES KONTROLÜ



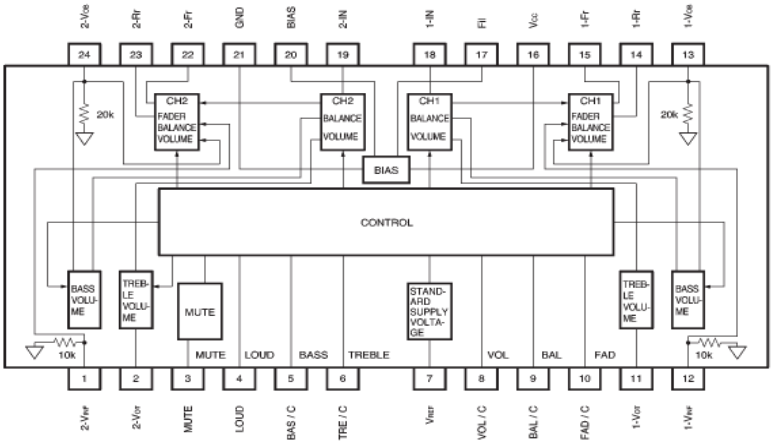
BA3853

OTOMATİK

STEREO SES KONTROLÜ

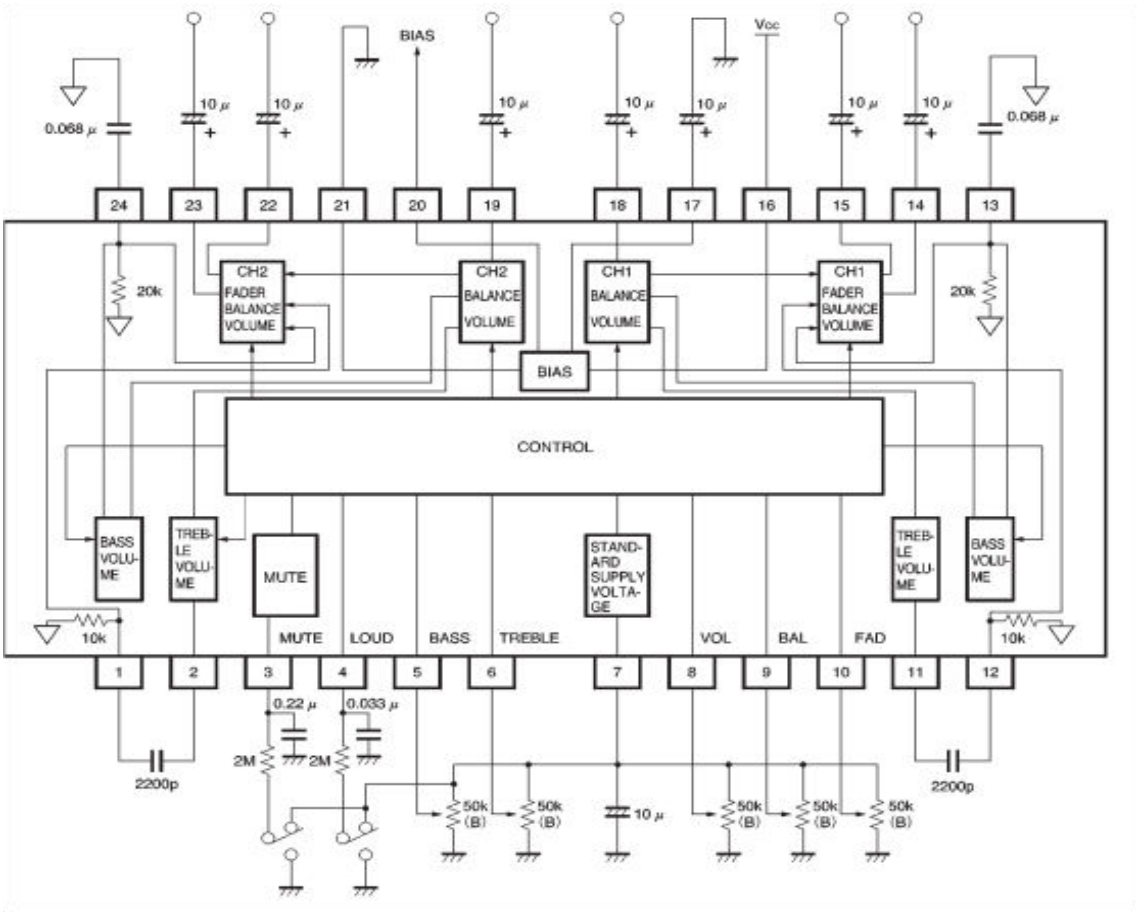


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

OTOMATİK STEREO SES KONTROLÜ



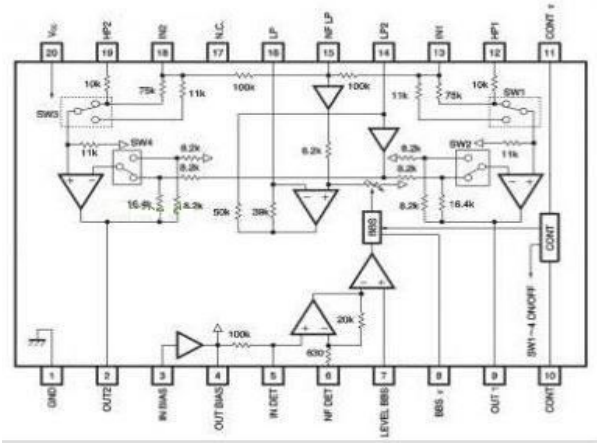
BA3870

OTO RADYOSU İÇİN

BAS ARTIRMA DEVRESİ

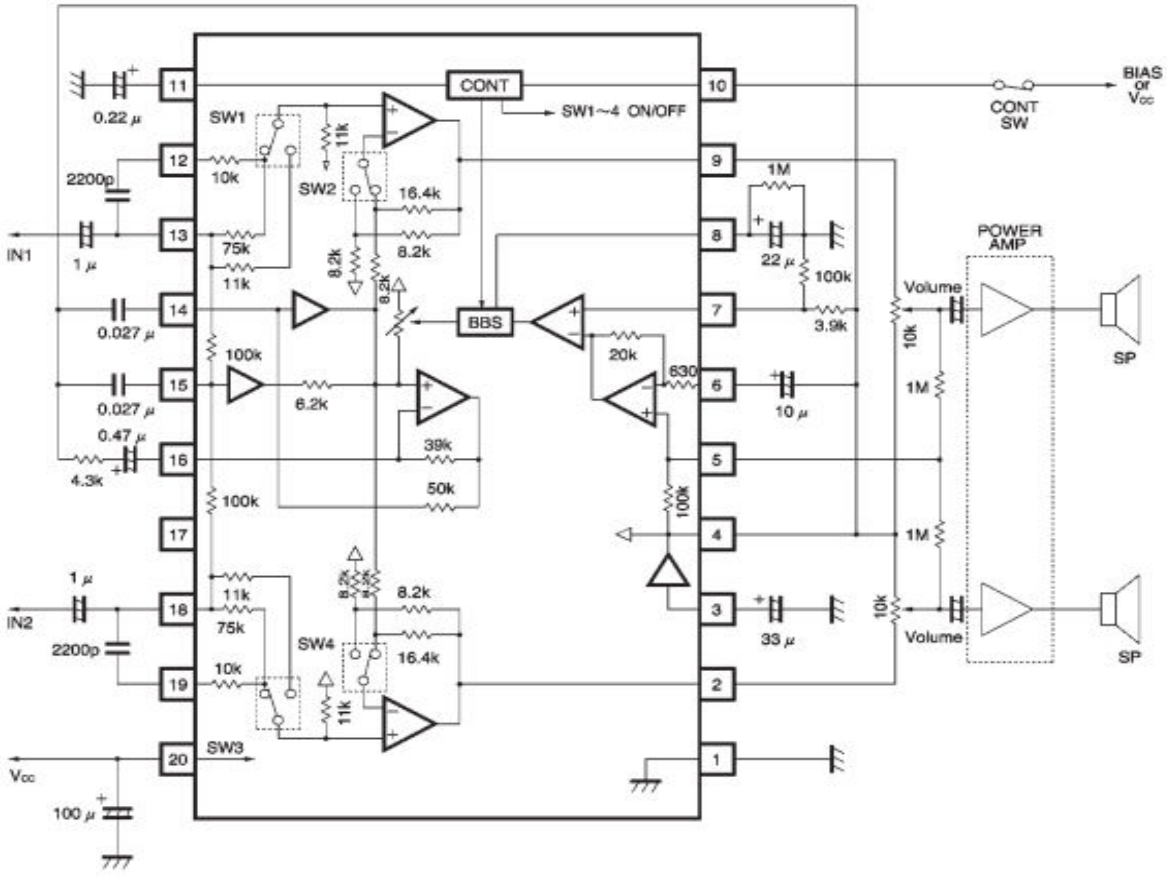


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ÇEŞİTLİ DEVRE ŞEMALARI

OTO RADYOSU İÇİN BAS ARTIRMA DEVRESİ



BA3880

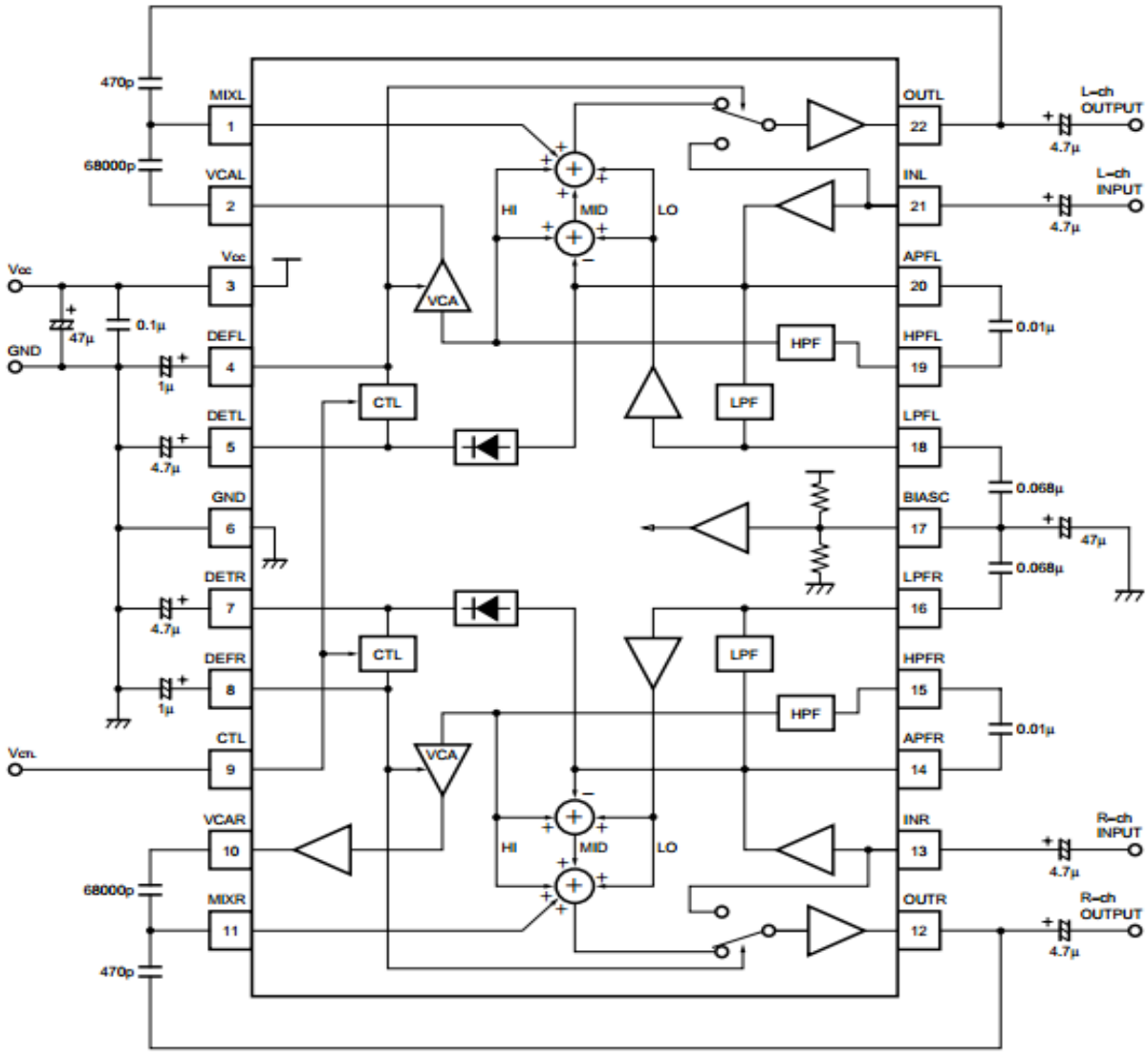
SES İŞLEMCİSİ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

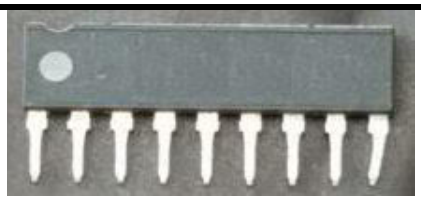
SES İŞLEMCİSİ



BA4424

TV / FM

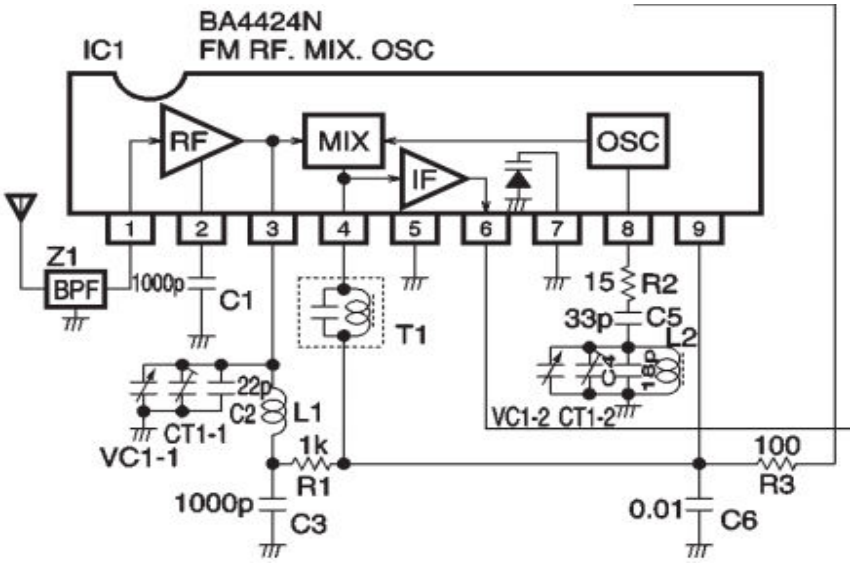
YF GİRİŞ DEVRESİ (FRONT END)

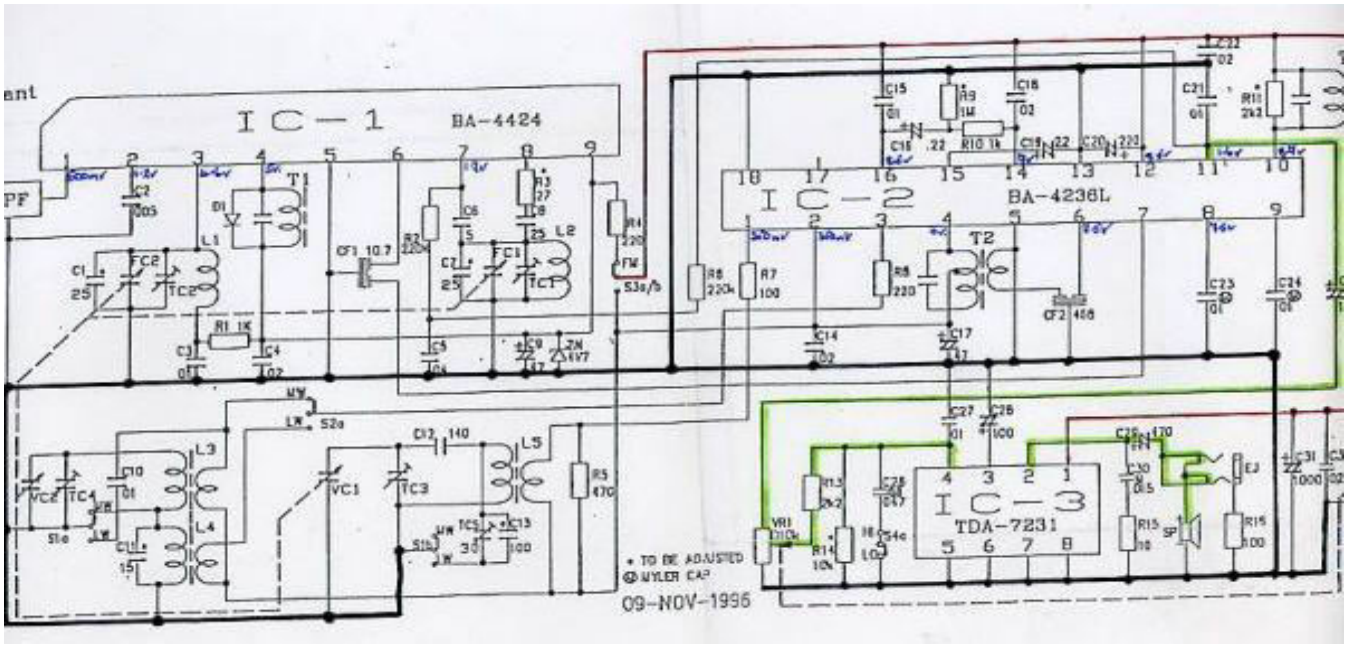


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

FM RADYO ANTEN GİRİŞ DEVRESİ (FRONT END)





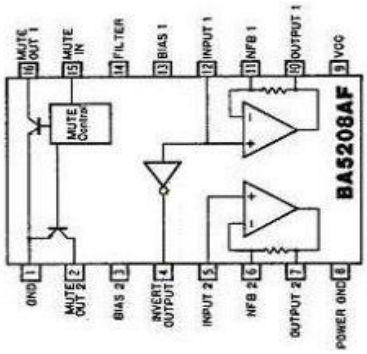
BA5208AF

120 mWATT (Düşük Voltaj)

STEREO AMPLİFİKATÖR

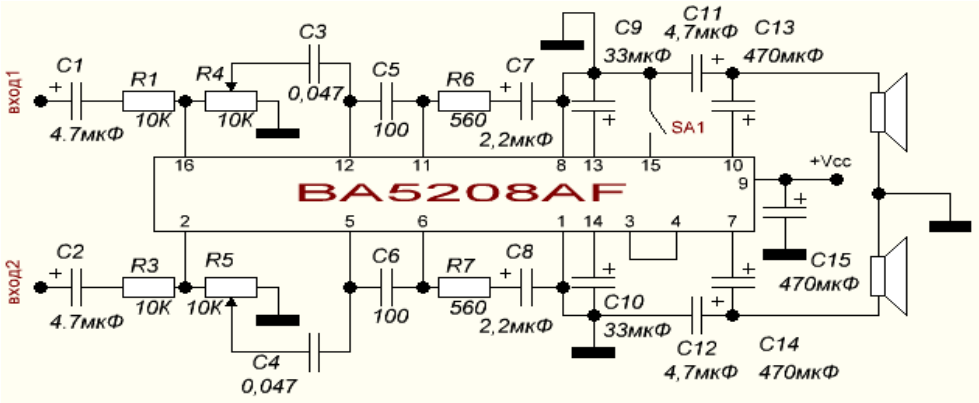


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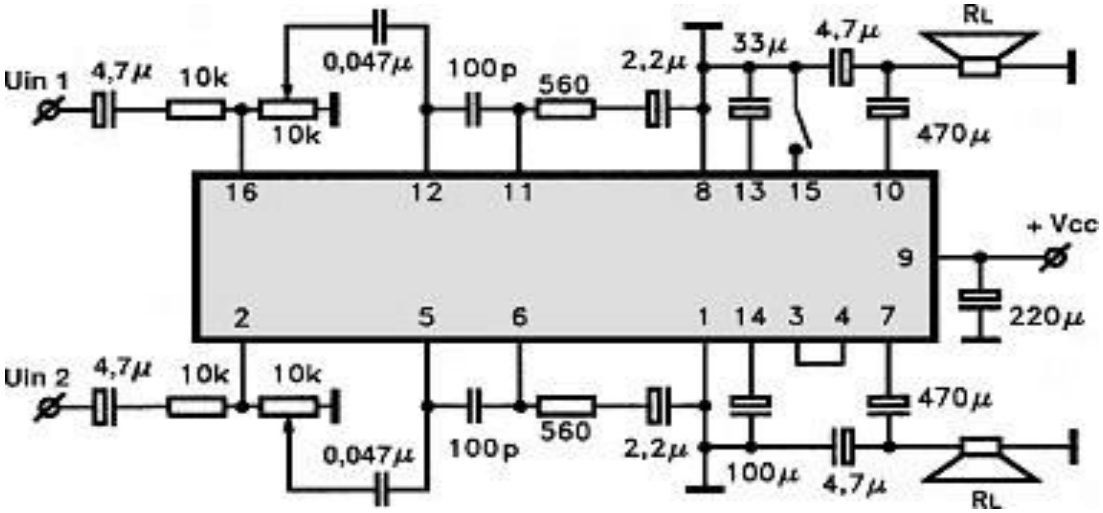


ÇEŞİTLİ DEVRE ŞEMALARI

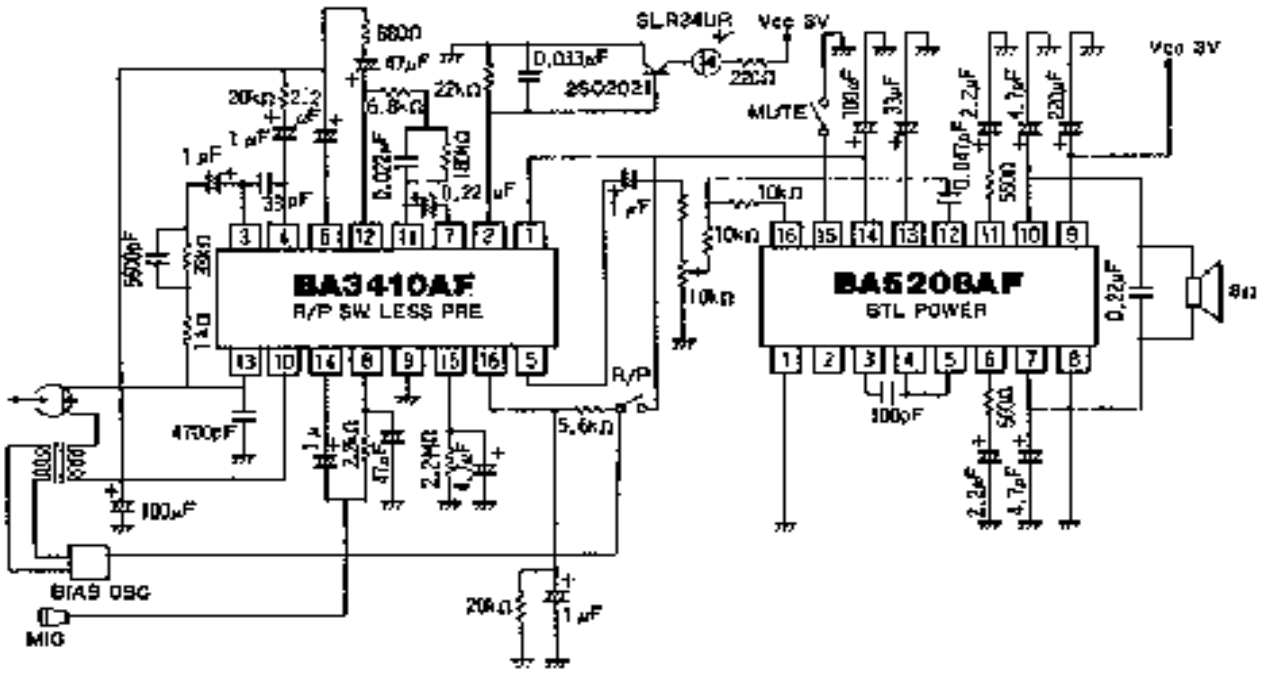
120 mWATT STEREO AMPLİFİKATÖR



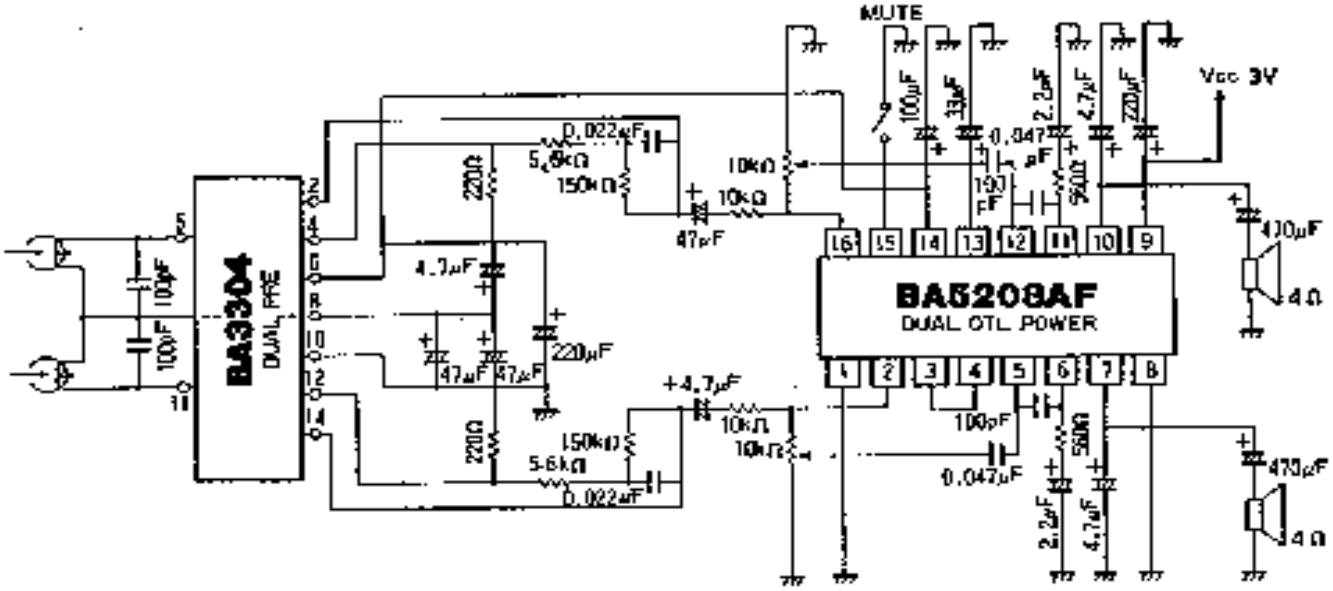
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TEYP DEVRESİ



TEYP DEVRESİ



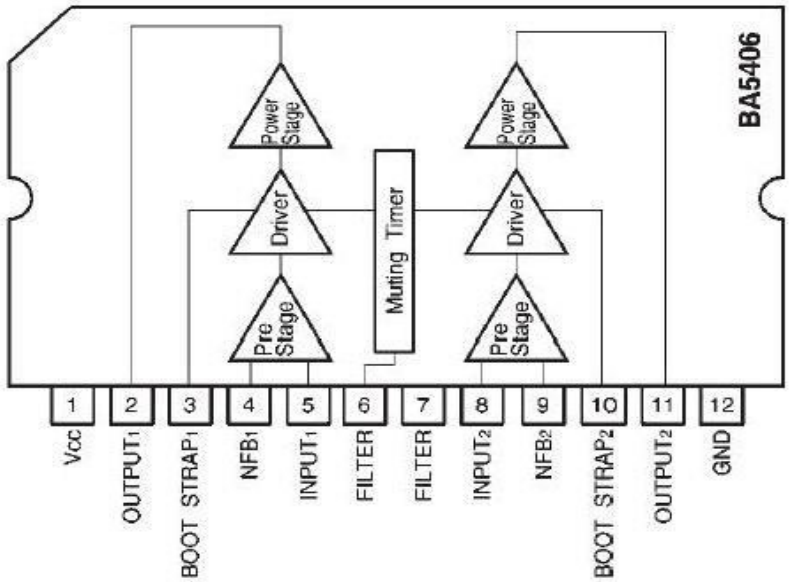
BA5406

5 WATT

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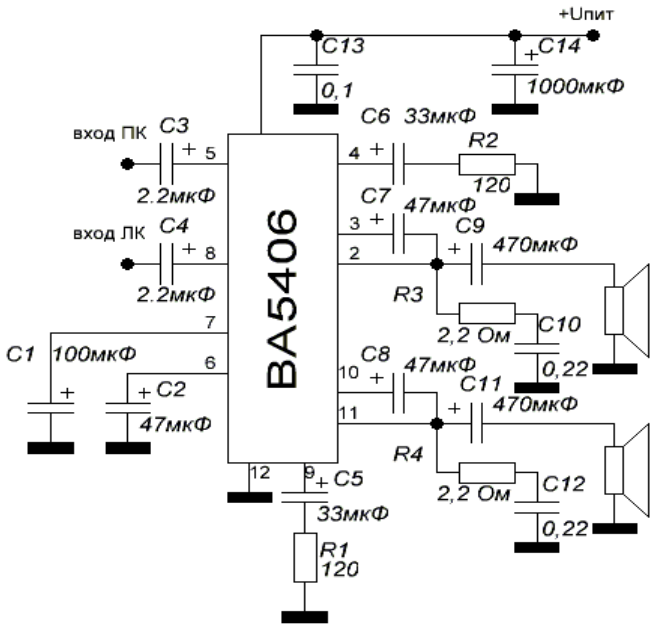


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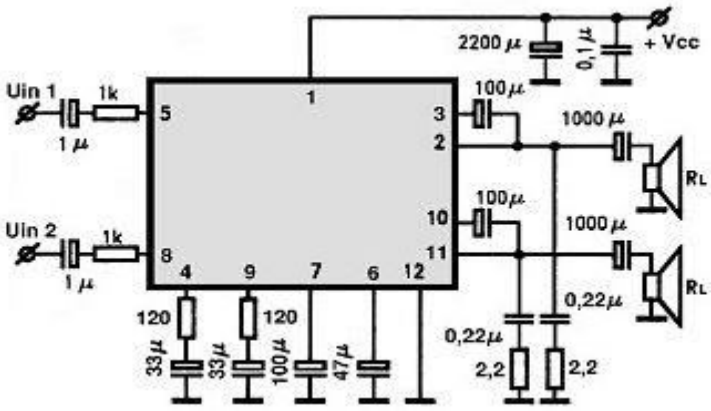


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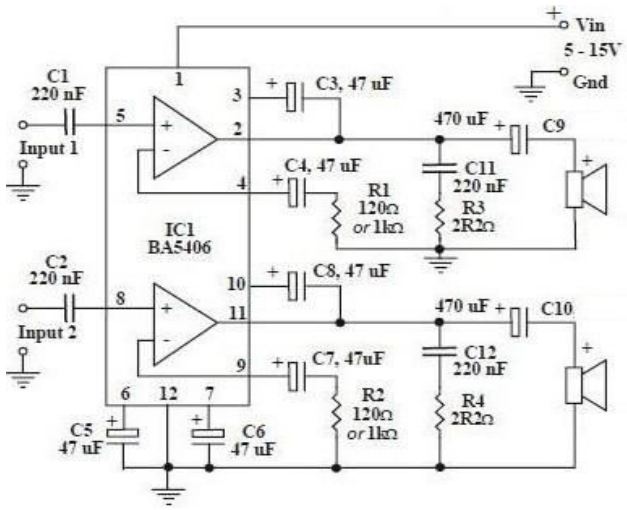
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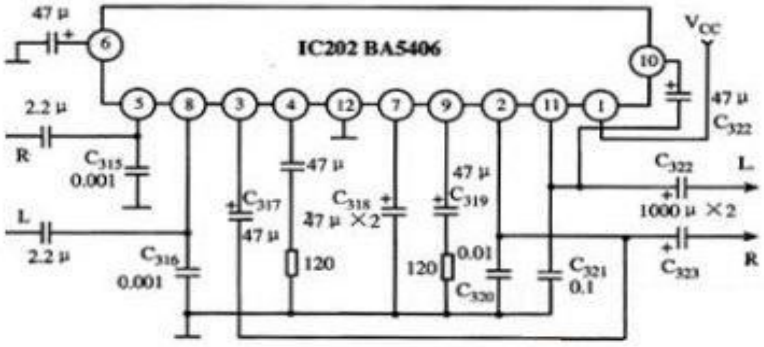
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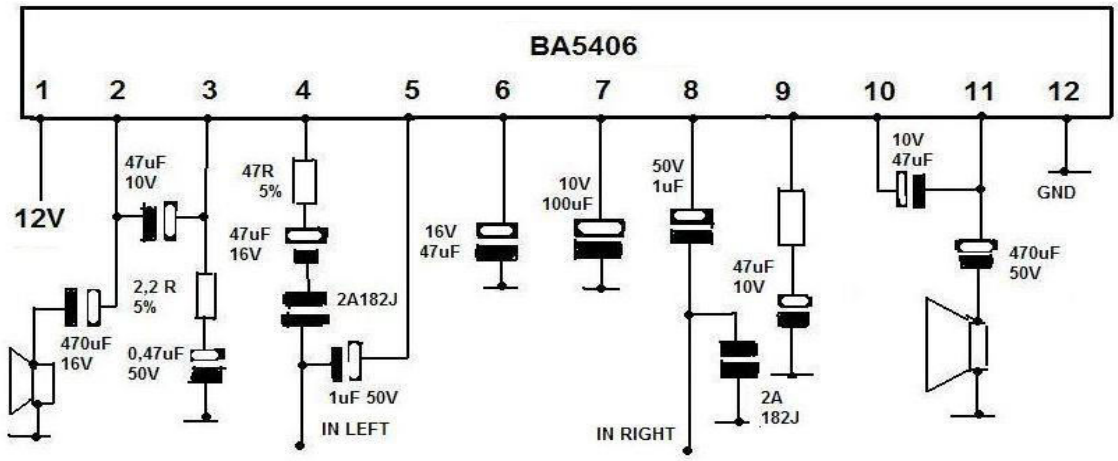
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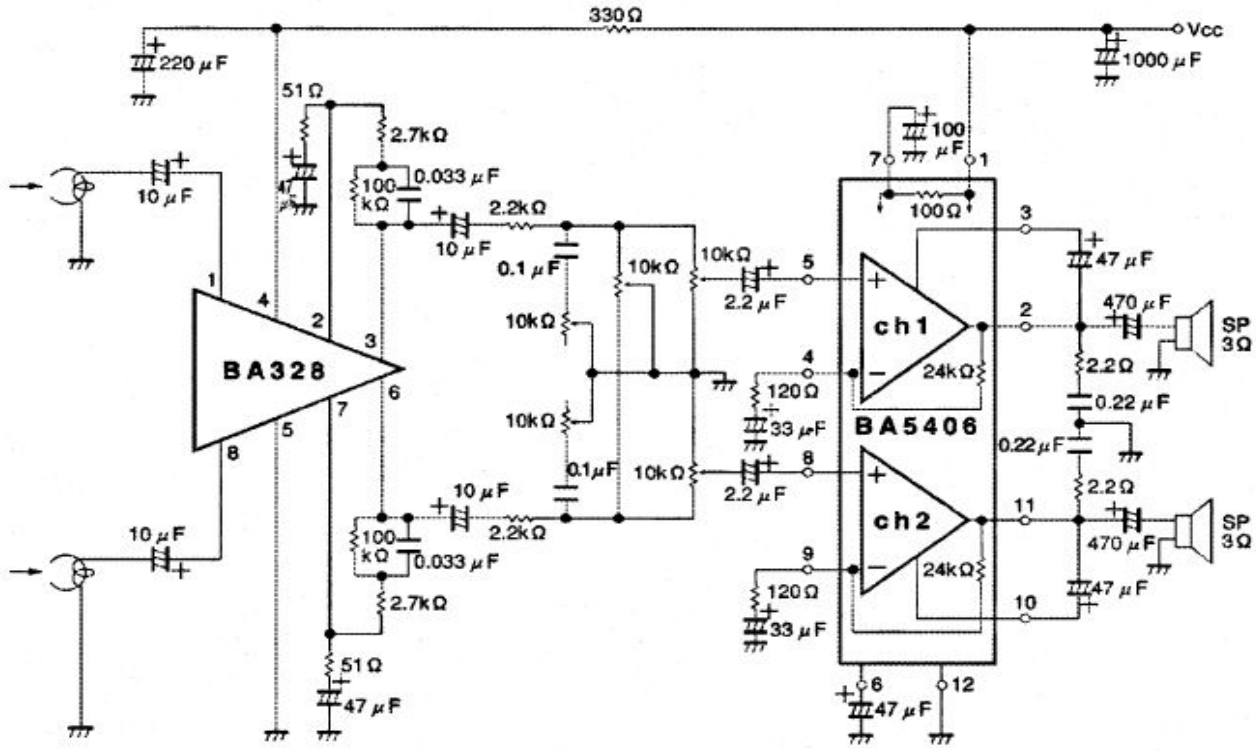
5 WATT STEREO AMPLİFİKATÖR



5 WATT STEREO AMPLİFİKATÖR



STEREO TEYP



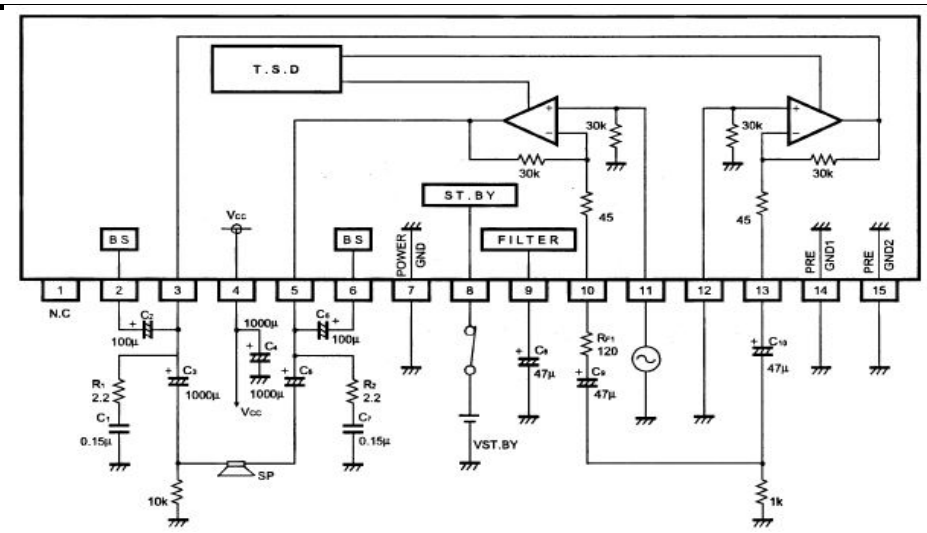
BA5417

5 WATT

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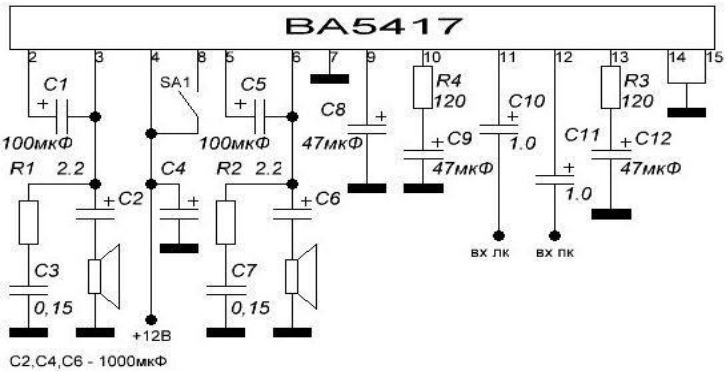


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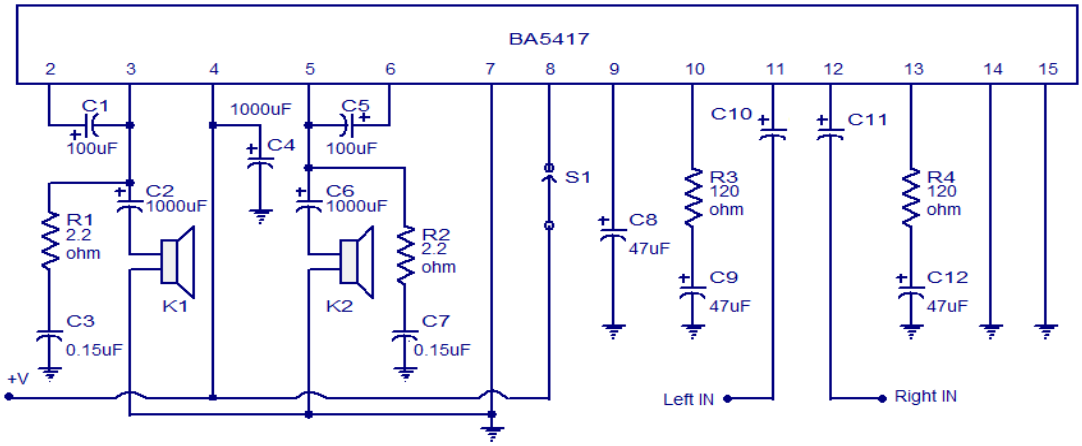


ÇEŞİTLİ DEVRE ŞEMALARI

5 WATT STEREO AMPLİFİKATÖR



5 WATT STEREO AMPLİFİKATÖR



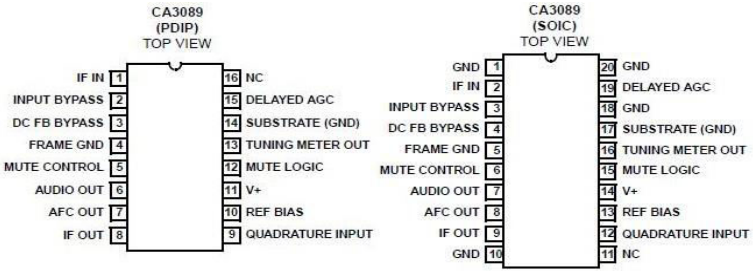
CA3089

AM / FM

ARA FREKANS AMPLİFİKATÖRÜ

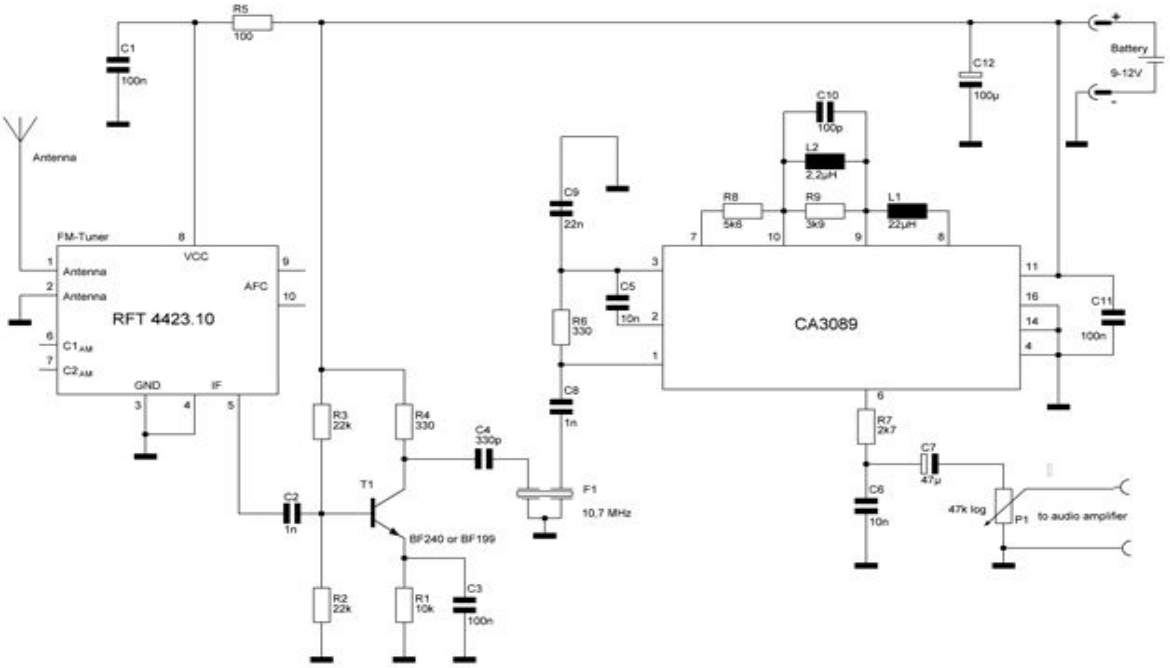


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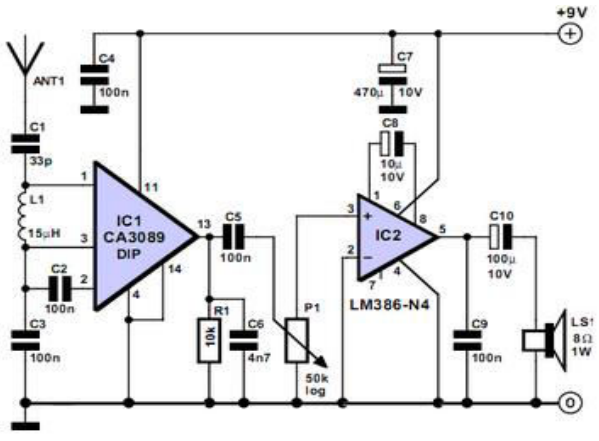


ÇEŞİTLİ DEVRE ŞEMALARI

FM RADYO



AM RADYO

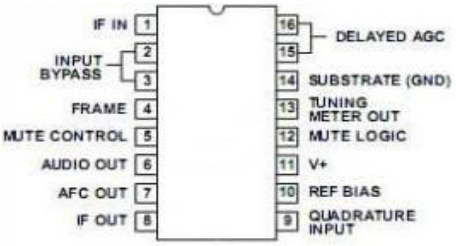


CA3189

AM / FM
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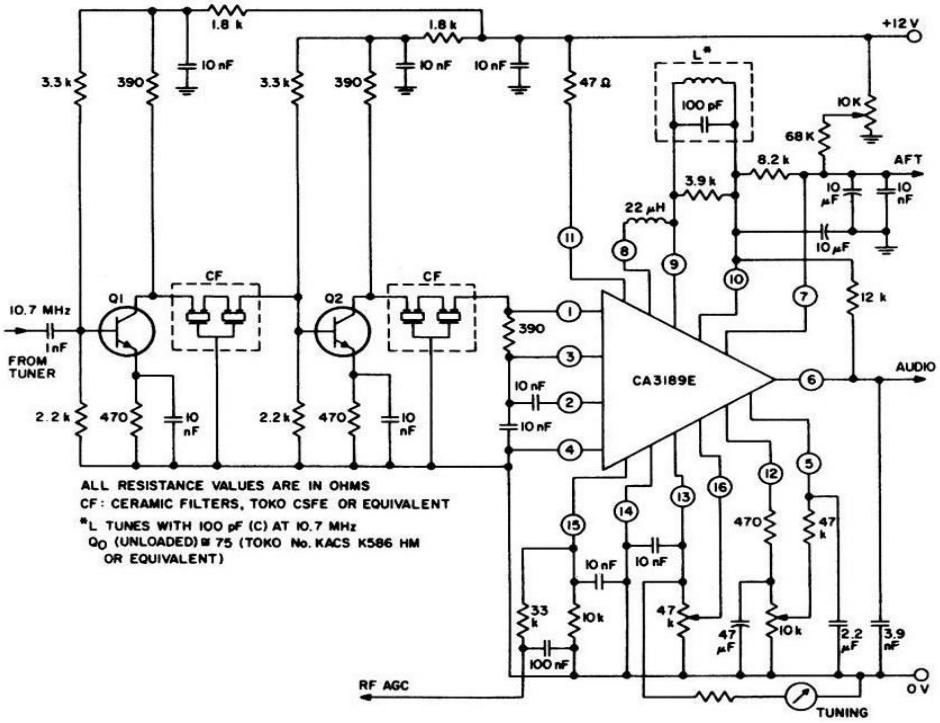


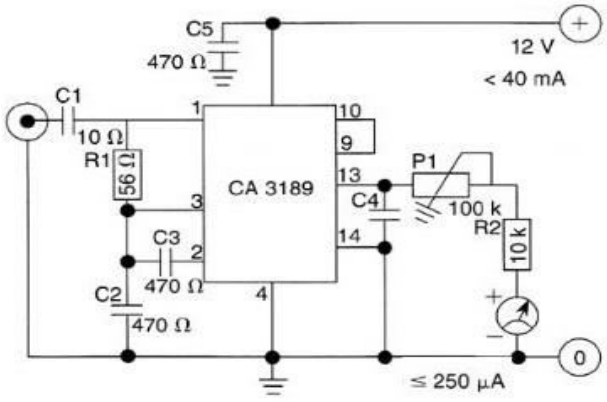
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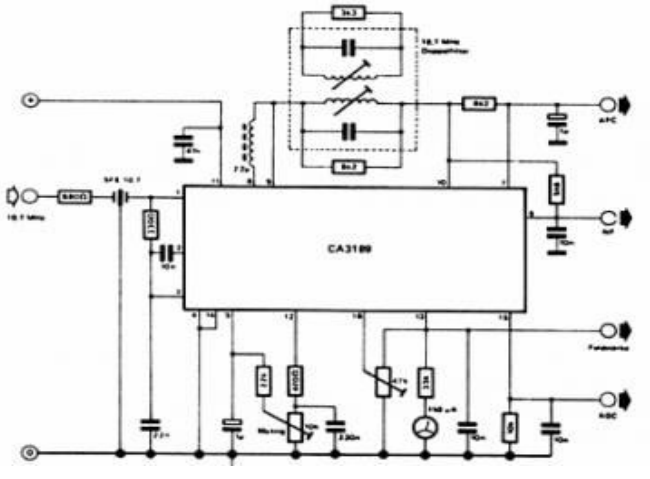


ÇEŞİTLİ DEVRE ŞEMALARI

FM RADYO ARA FREKANS KATI







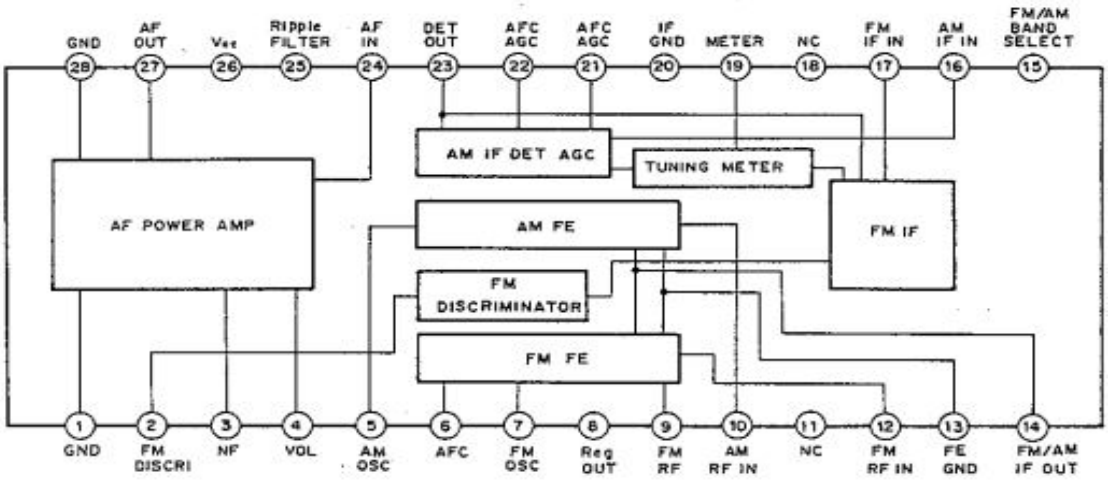
CXA1019M

AM / FM

RADYO

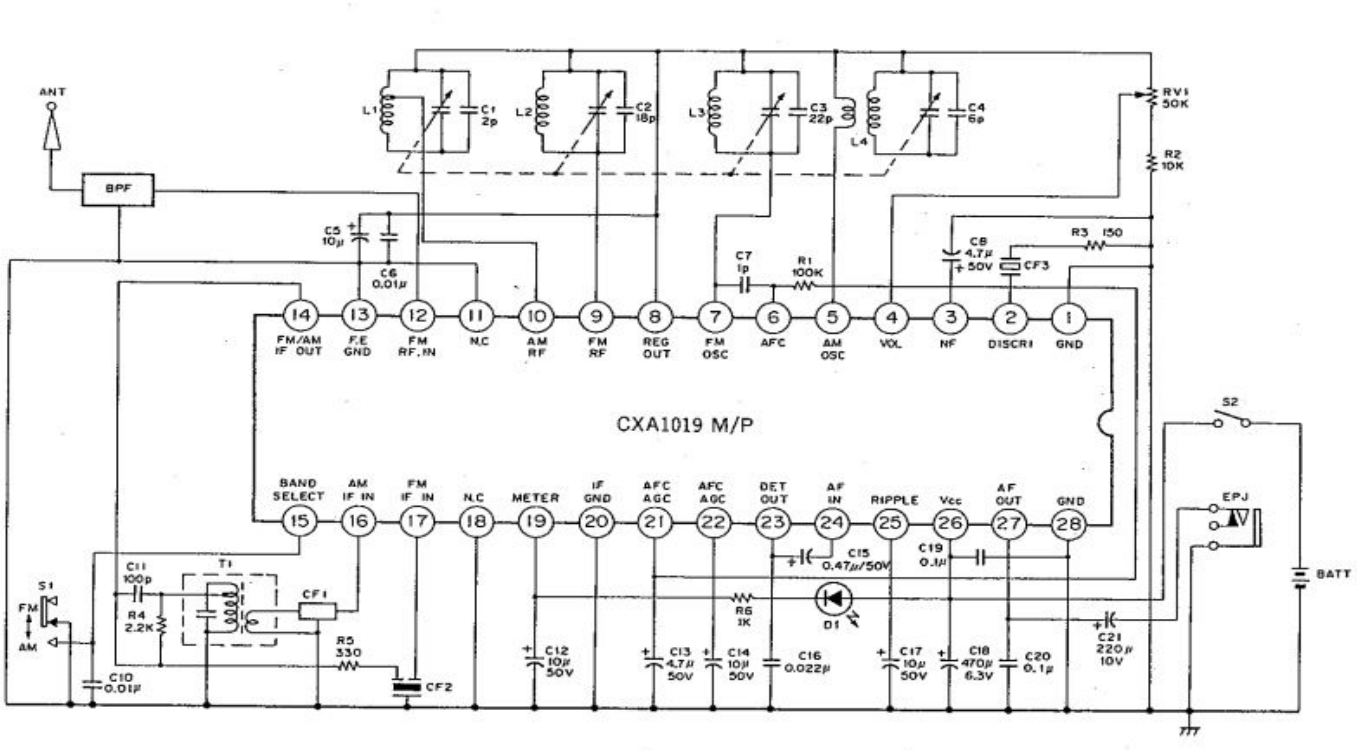


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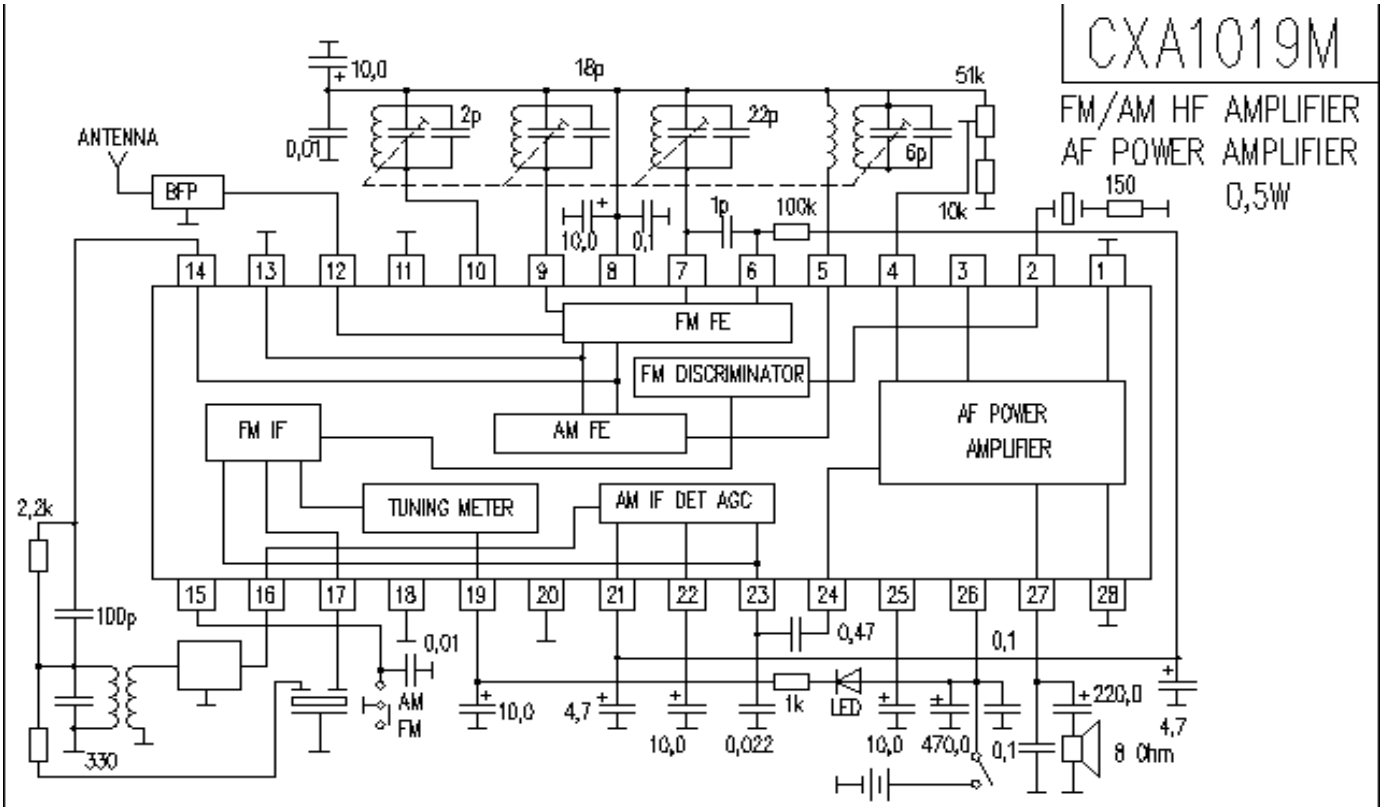
ÇEŞITLI DEVRE ŞEMALARI

AM / FM RADYO



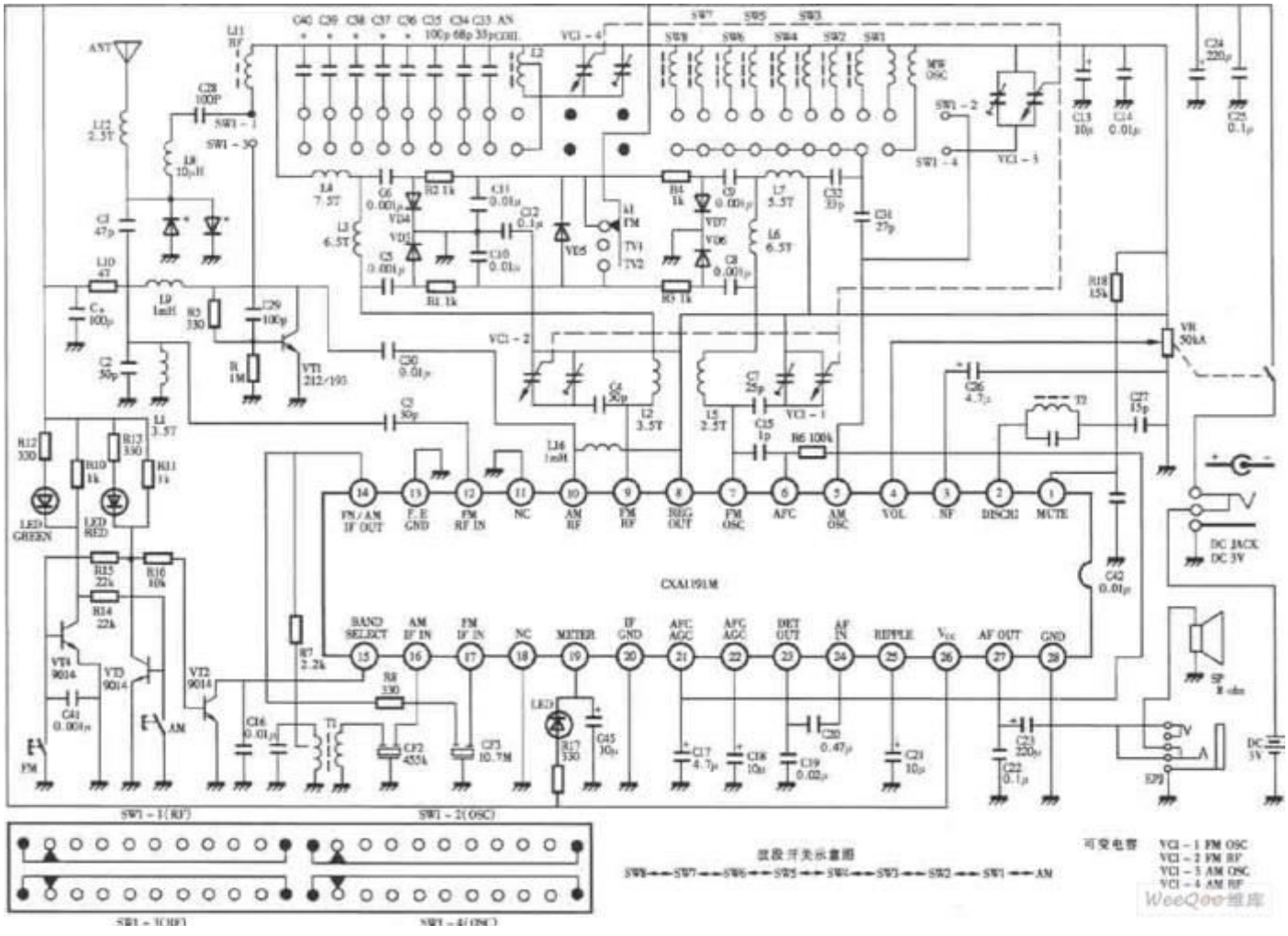
CXA1019M

FM/AM HF AMPLIFIER
AF POWER AMPLIFIER 0,5W



V_{CC} MAX =9V	I_{CCO} TYP = 7mA	P_O = 0,5W	R_{IN} = –
V_{CC} TYP =6V	I_{CCO} MAX = 14mA	R_L = 8 Ohm	Gain = 31,5dB
V_{CC} RNG =2...7,5V	IMAX = –	THD = 10%	Noise = –

$R_{TH J-C}$ = –
Case SO28



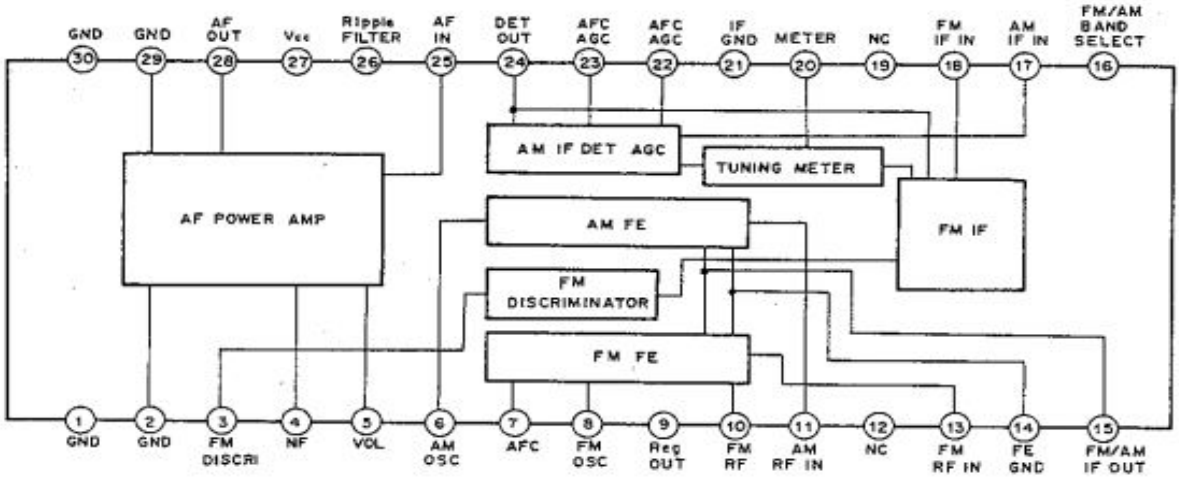
CXA1019S

AM / FM

RADYO

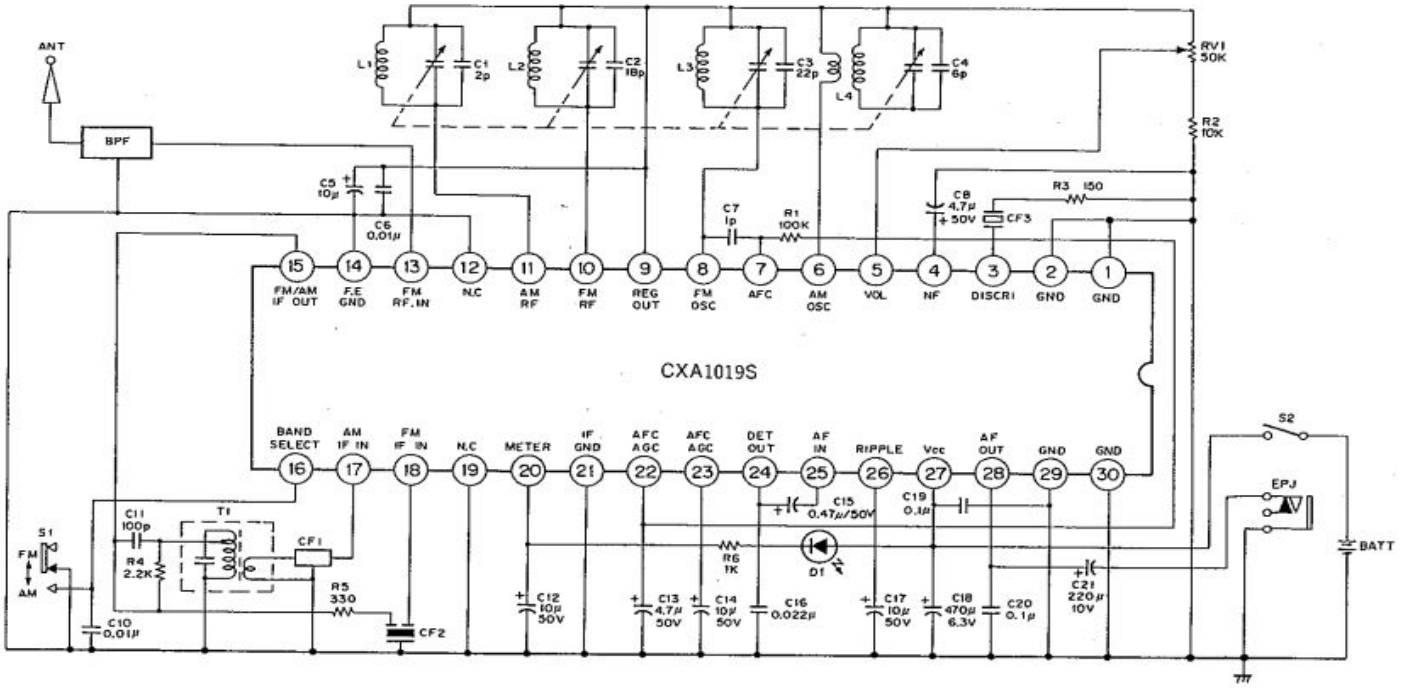


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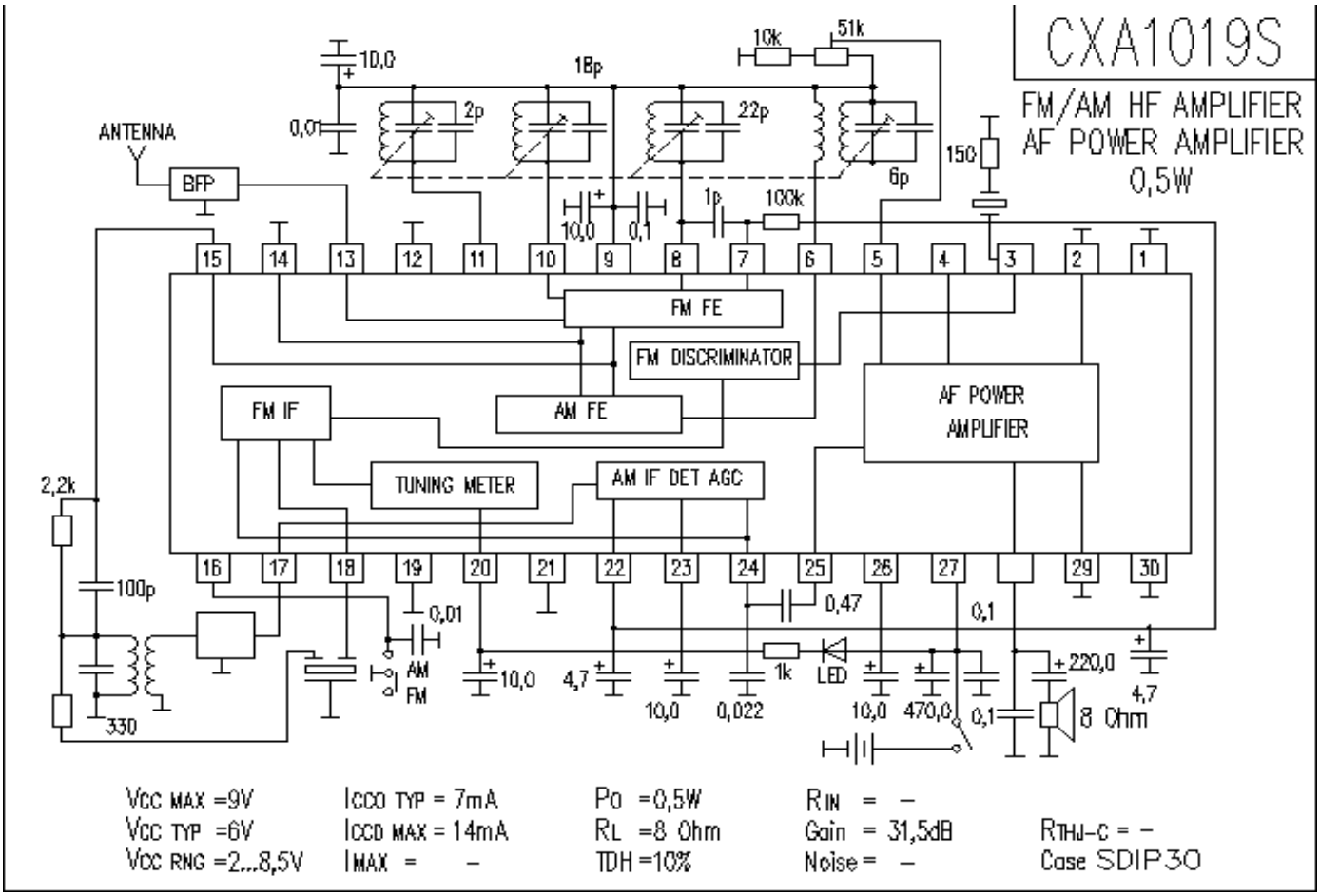
ÇEŞİTLİ DEVRE ŞEMALARI

AM / FM RADYO

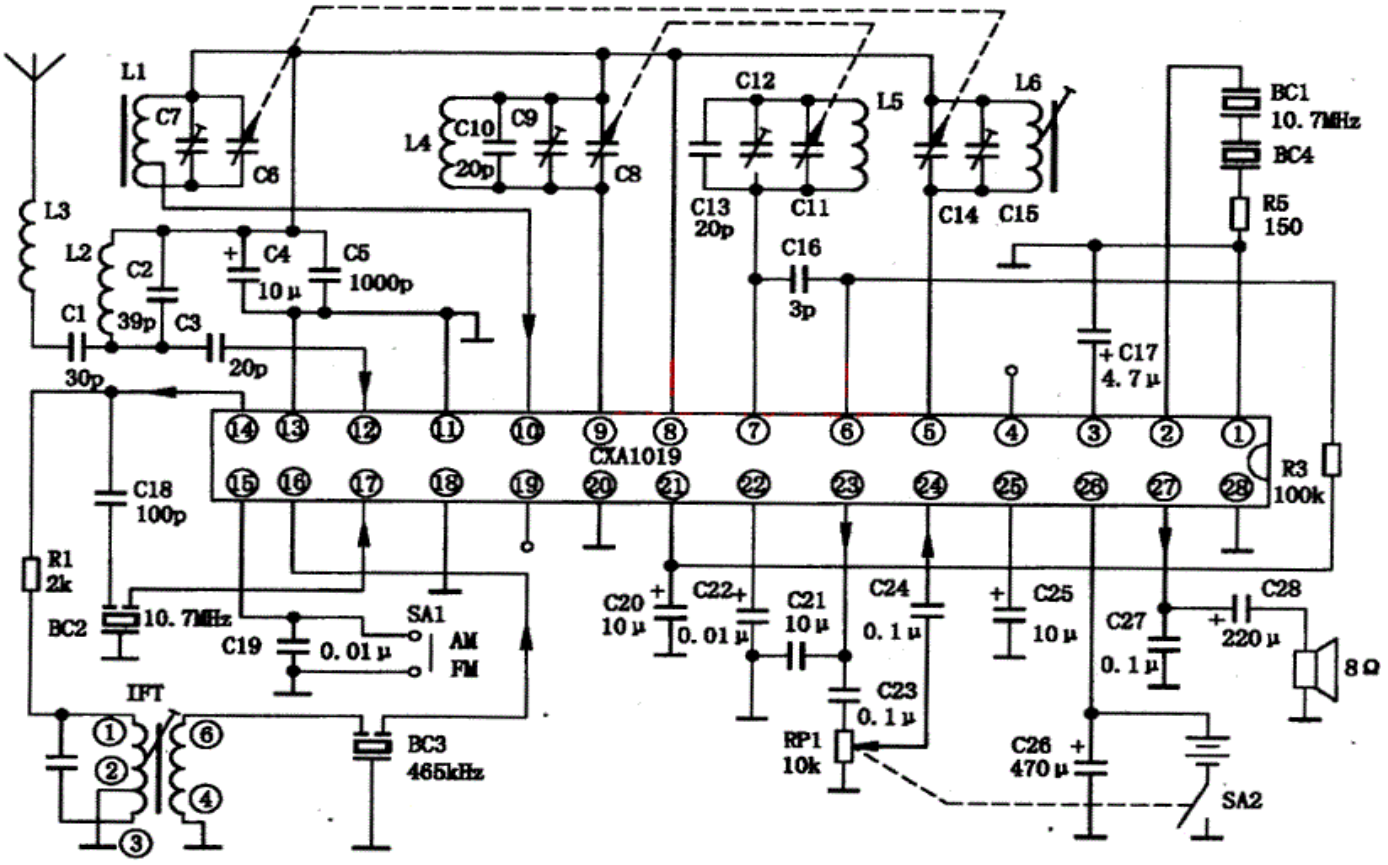


CXA1019S

FM/AM HF AMPLIFIER
AF POWER AMPLIFIER
0,5W



$V_{CC\ MAX}$ =9V	$I_{CCO\ TYP}$ = 7mA	Po =0,5W	R_{IN} = –	
$V_{CC\ TYP}$ =6V	$I_{CCO\ MAX}$ = 14mA	R_L =8 Ohm	Gain = 31,5dB	$R_{TH J-C}$ = –
$V_{CC\ RNG}$ =2...8,5V	I_{MAX} = –	THD =10%	Noise = –	Case SDIP30

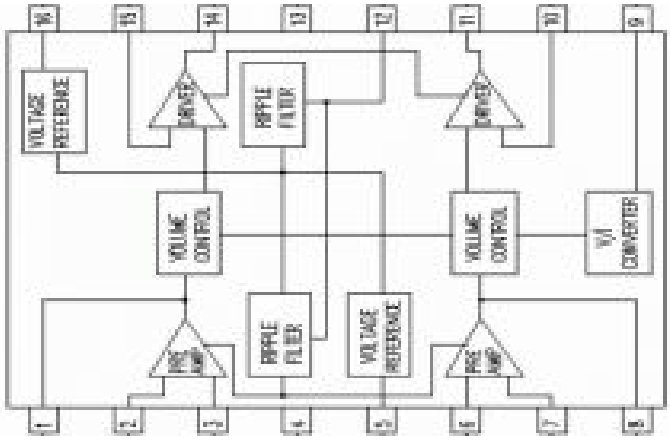


CXA1034P

STEREO 0,35 WATT ÇIKIŞLI KOMPLE TEYP DEVRESİ

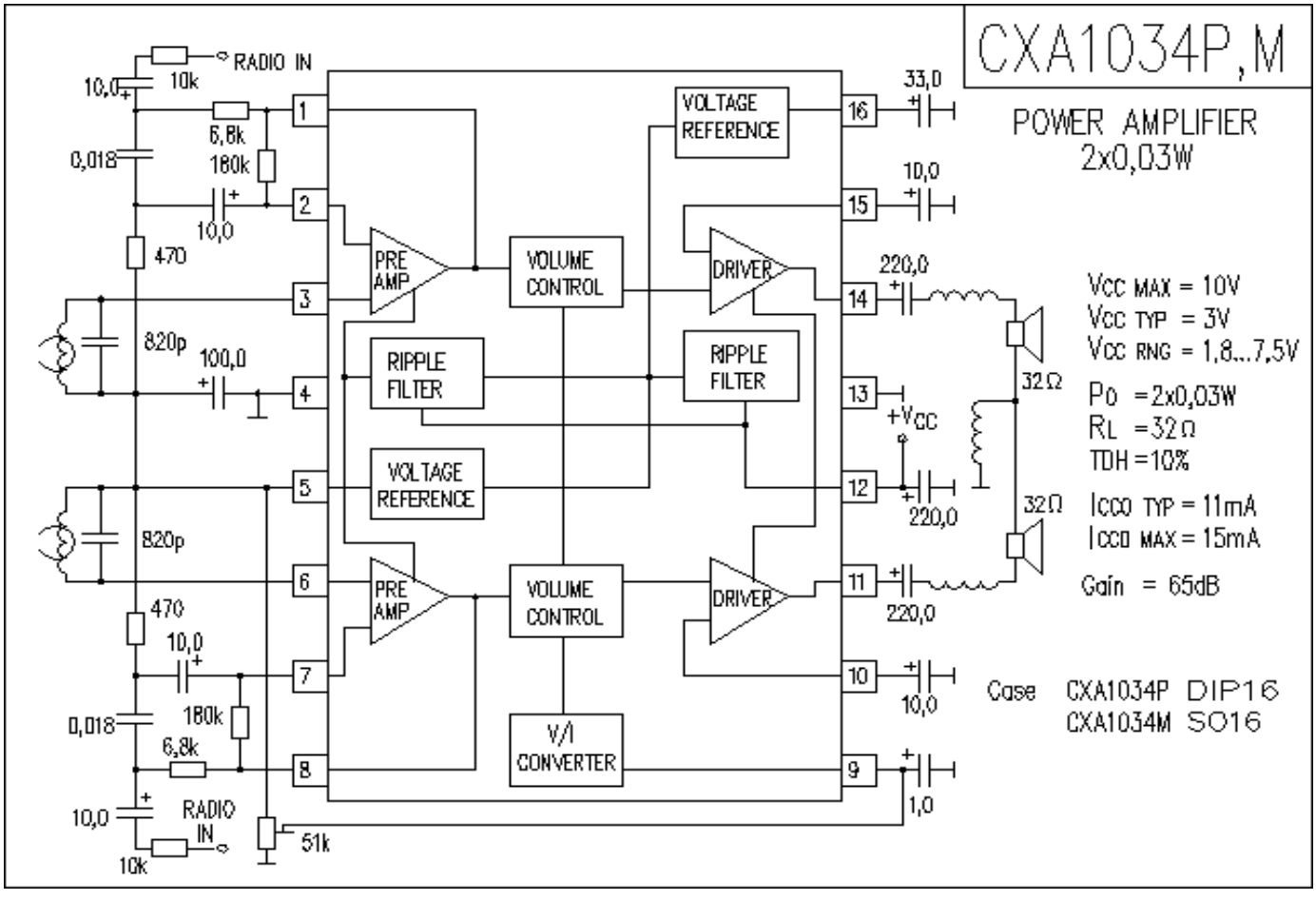


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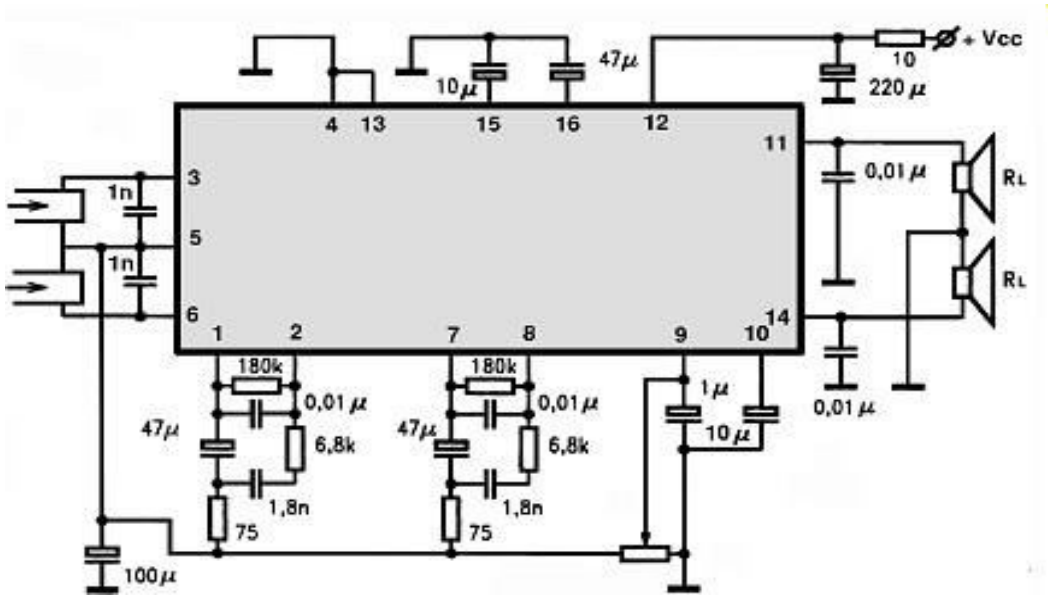


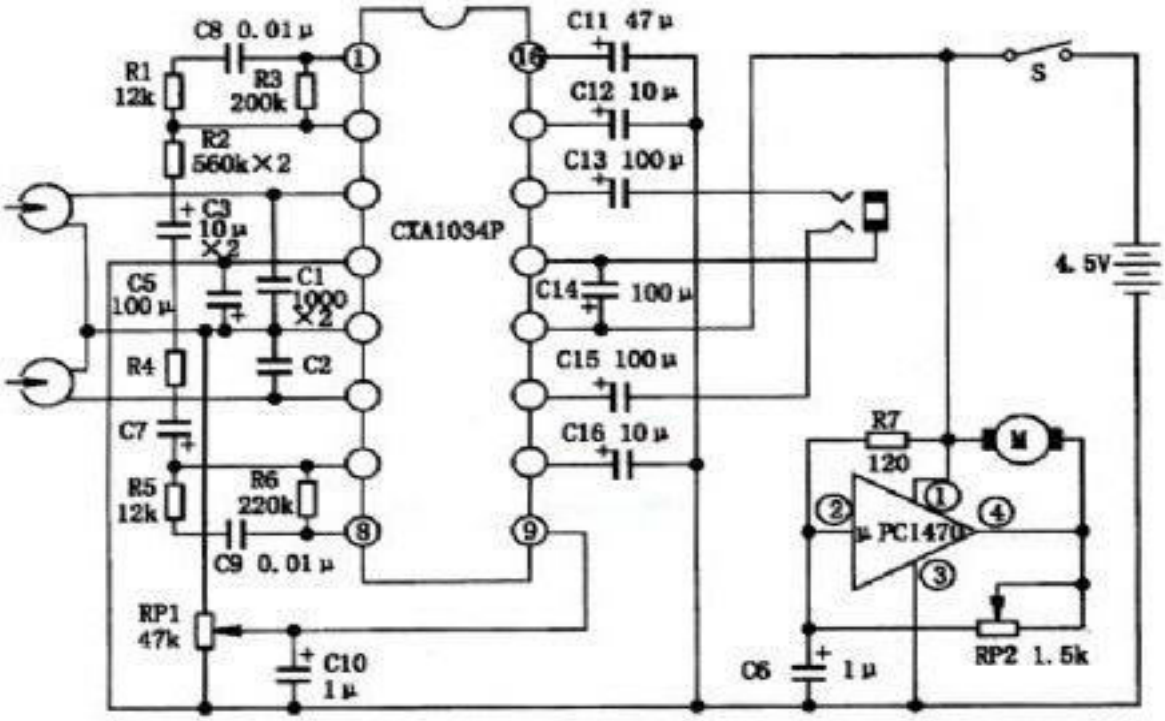
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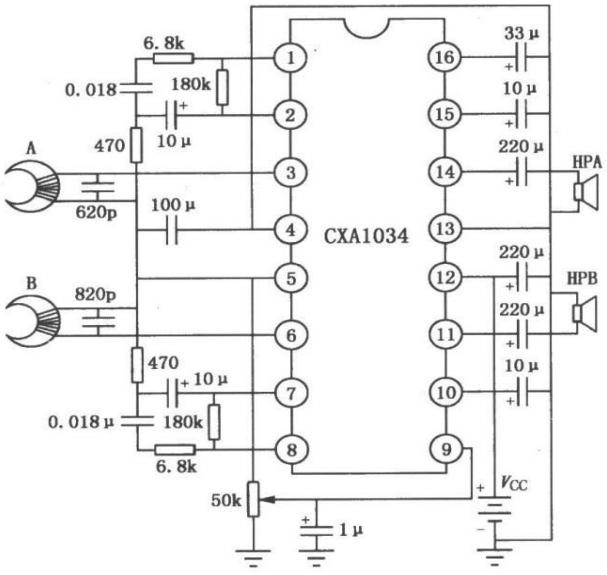
TEYP

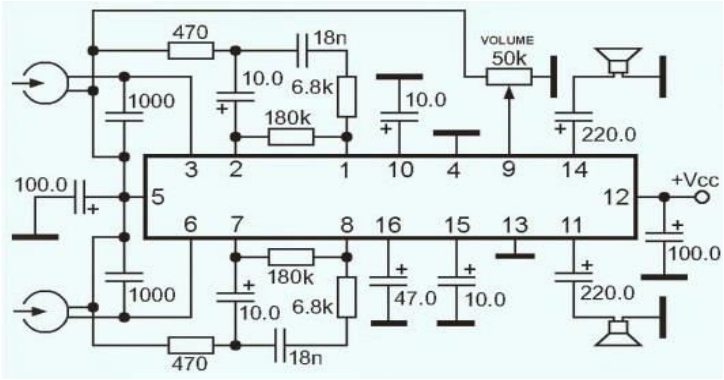


TEYP


+ Vcc
10
220 μ
47μ
10μ
4 13
15
16
12
11
3
5
6
1n
1n
1 2
7 8
9 10 14
0,01 μ
RL
RL
180k
0,01 μ
6,8k
1,8n
75
47μ
180k
0,01 μ
6,8k
1,8n
75
47μ
1 μ
10 μ
0,01 μ
100μ


C8 0.01 μ
C11 47 μ
R1 12k
R3 200k
R2 560k×2
C12 10 μ
C13 100 μ
C3 10 μ ×2
CXA1034P
C5 100 μ
C1 1000 ×2
C14 100 μ
4.5V
R4
C2
C15 100 μ
C7
C16 10 μ
R7 120
M
R5 12k
R6 220k
C9 0.01 μ
μPC1470
RP1 47k
C10 1 μ
C6 1 μ
RP2 1.5k
S


6.8k
0.018
180k
33 μ
10 μ
A
470
10 μ
220 μ
HPA
620p
100 μ
CXA1034
B
820p
220 μ
HPB
220 μ
470
10 μ
10 μ
0.018 μ
180k
6.8k
50k
1 μ
Vcc


470
18n
VOLUME
50k
10.0
6.8k
1000
180k
10.0
220.0
3 2 1 10 4 9 14
100.0
5
12
+Vcc
6 7 8 16 15 13 11
100.0
180k
1000
10.0
6.8k
47.0
10.0
220.0
470
18n

CXA1191M / KA22426

AM / FM

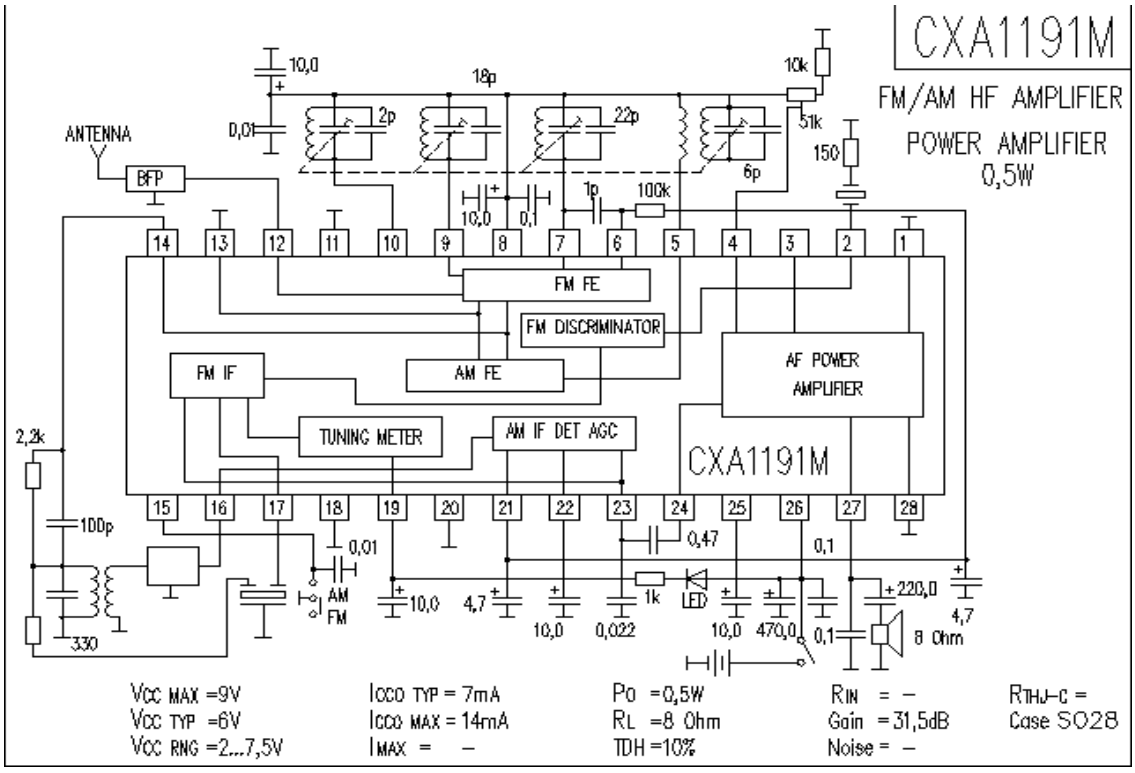
RADYO

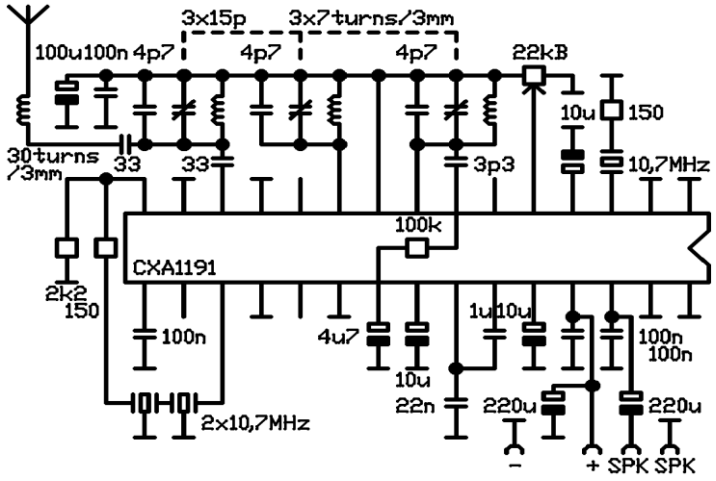


İÇ YAPISI

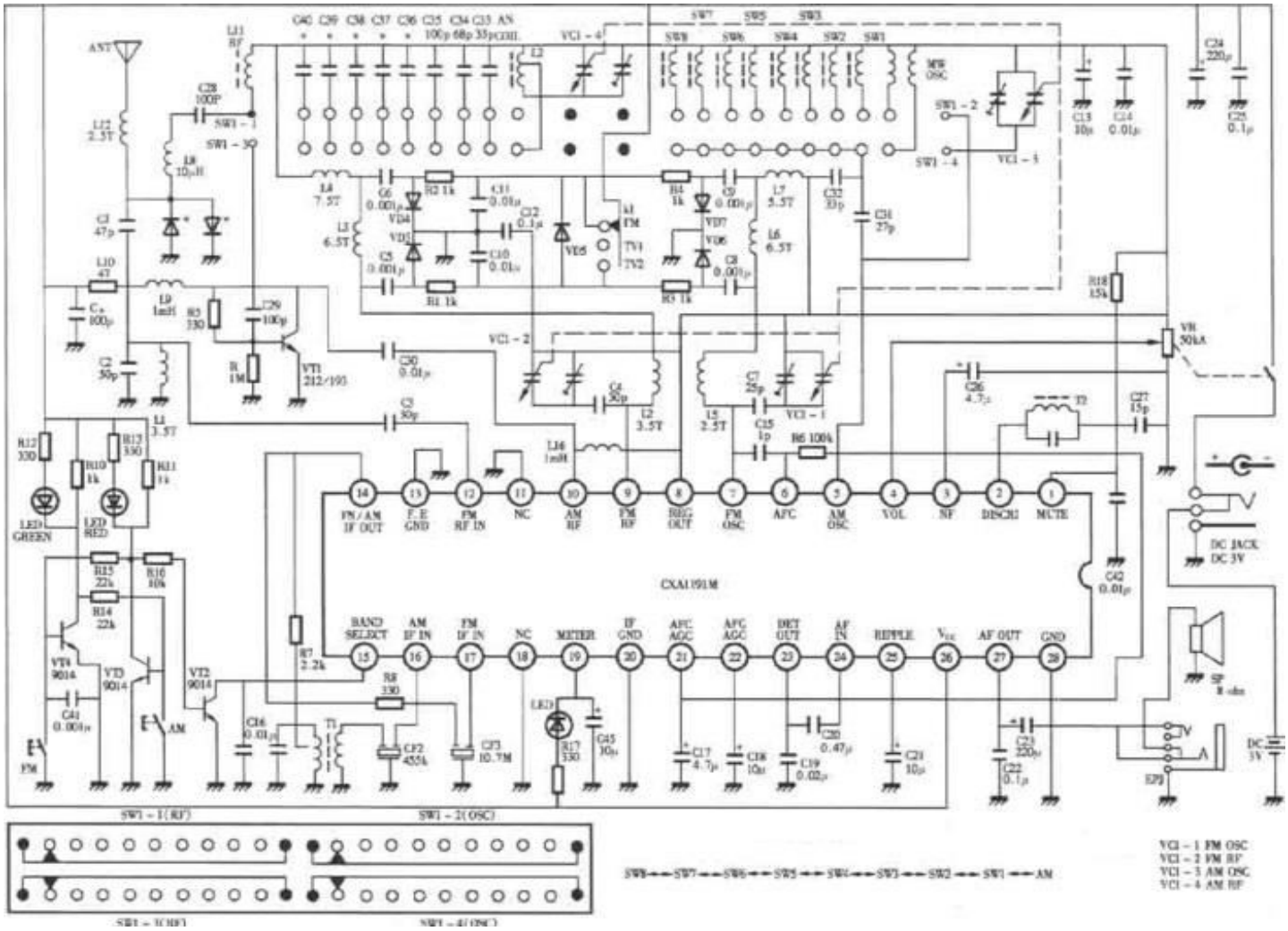
ÇEŞİTLİ DEVRE ŞEMALARI

AM / FM RADYO

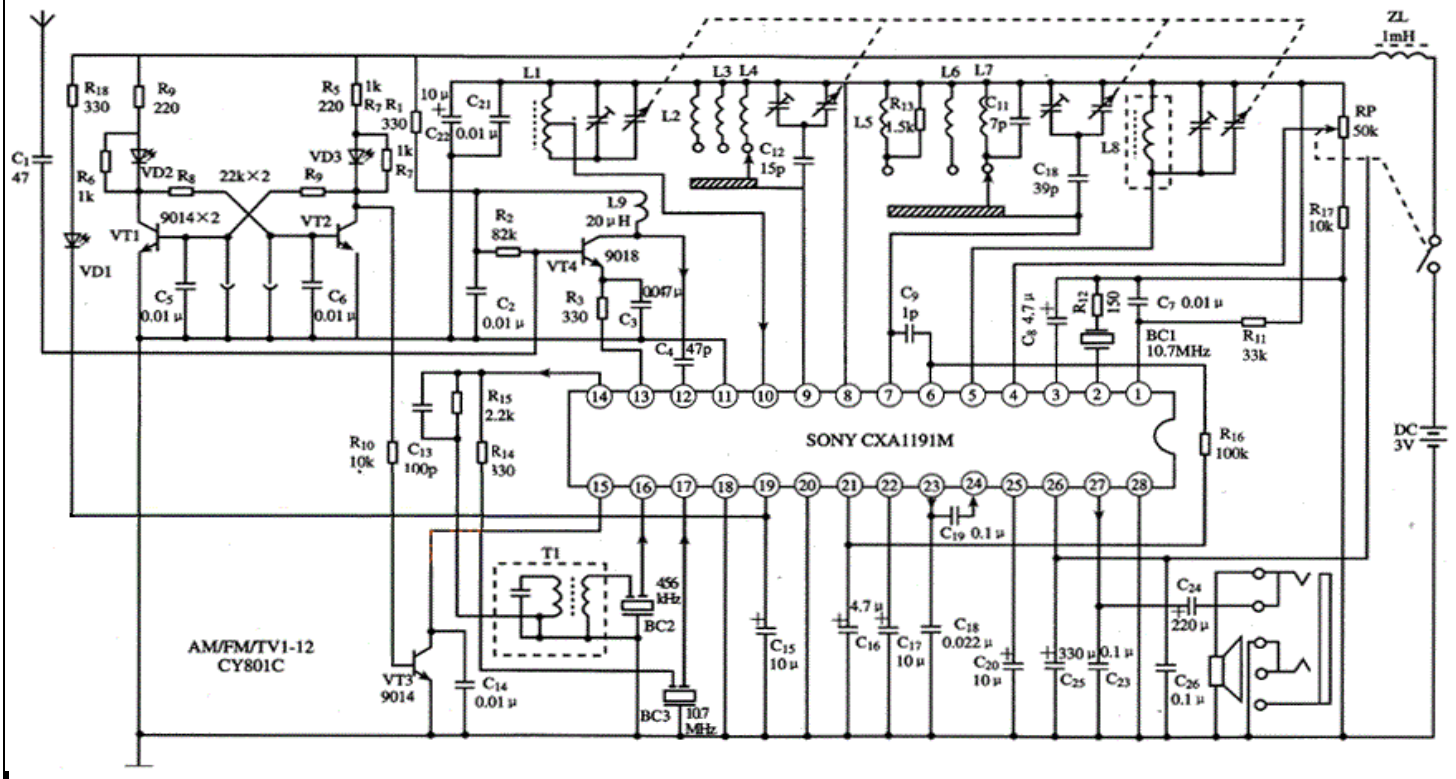




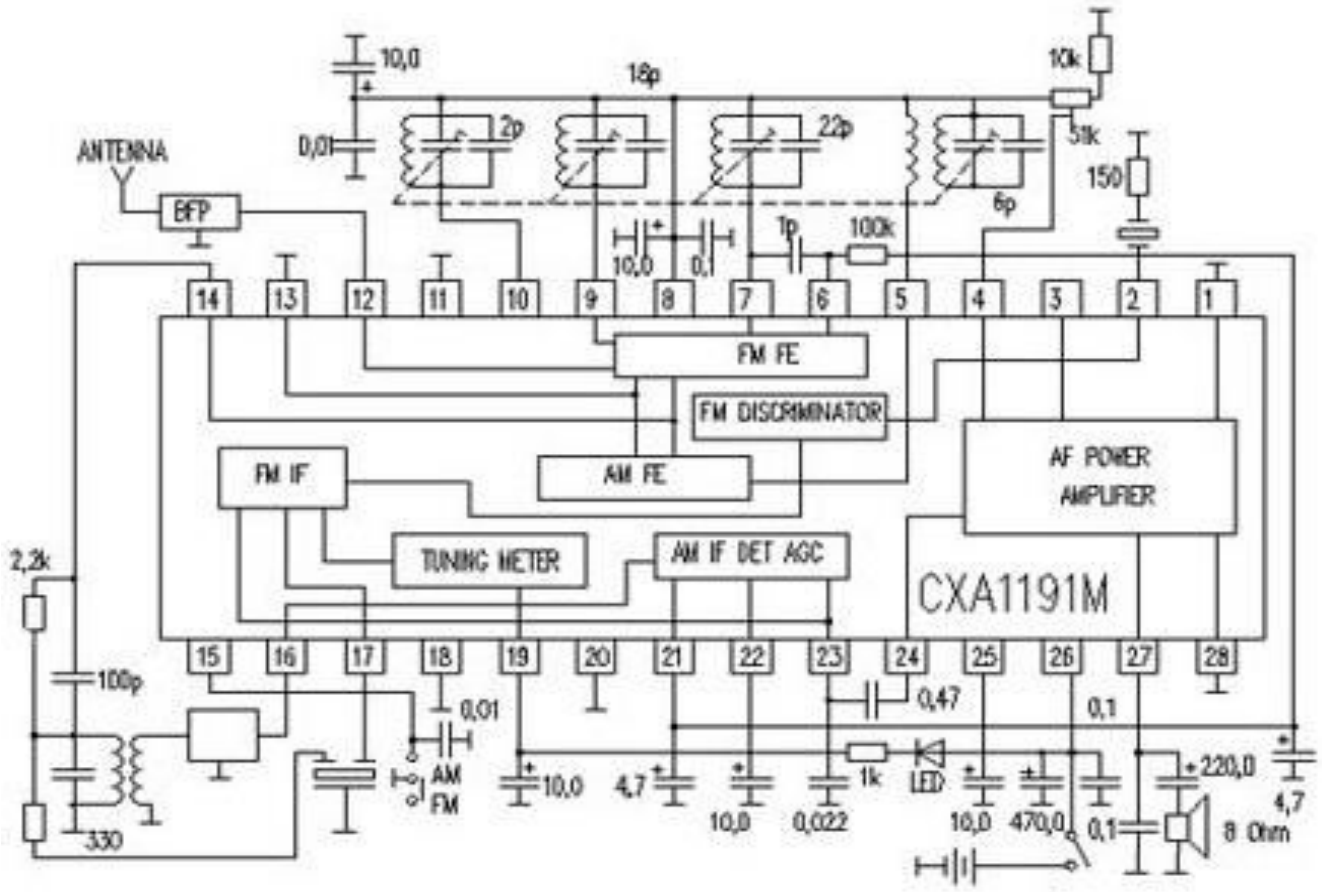
9 BAND AM RADYO (8 KISA DALGA 1 ORTA DALGA)



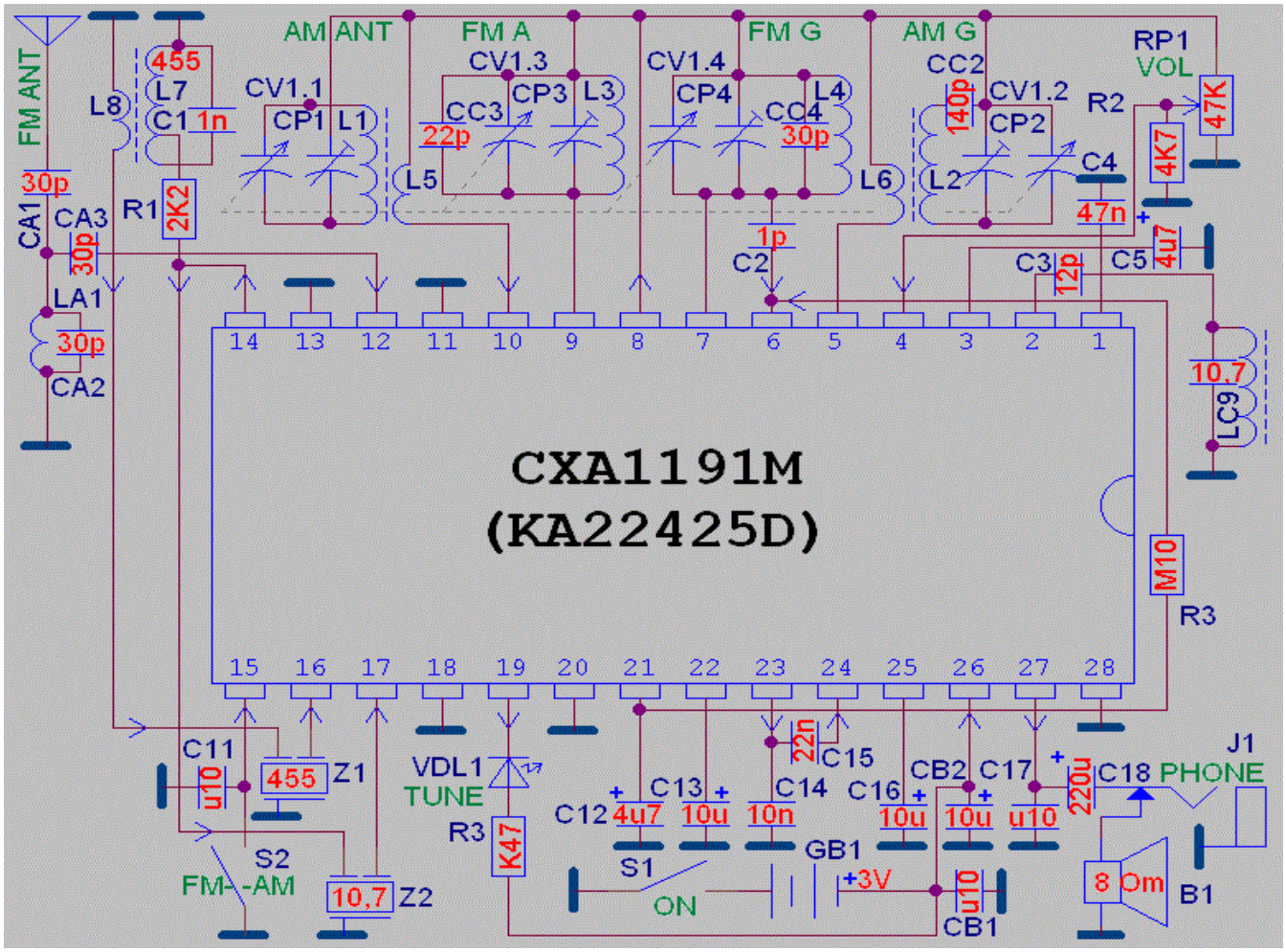
AM / FM RADYO



AM / FM RADYO



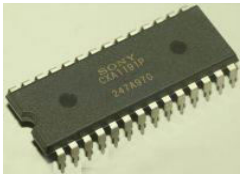
AM / FM RADYO



CXA1191P

AM / FM

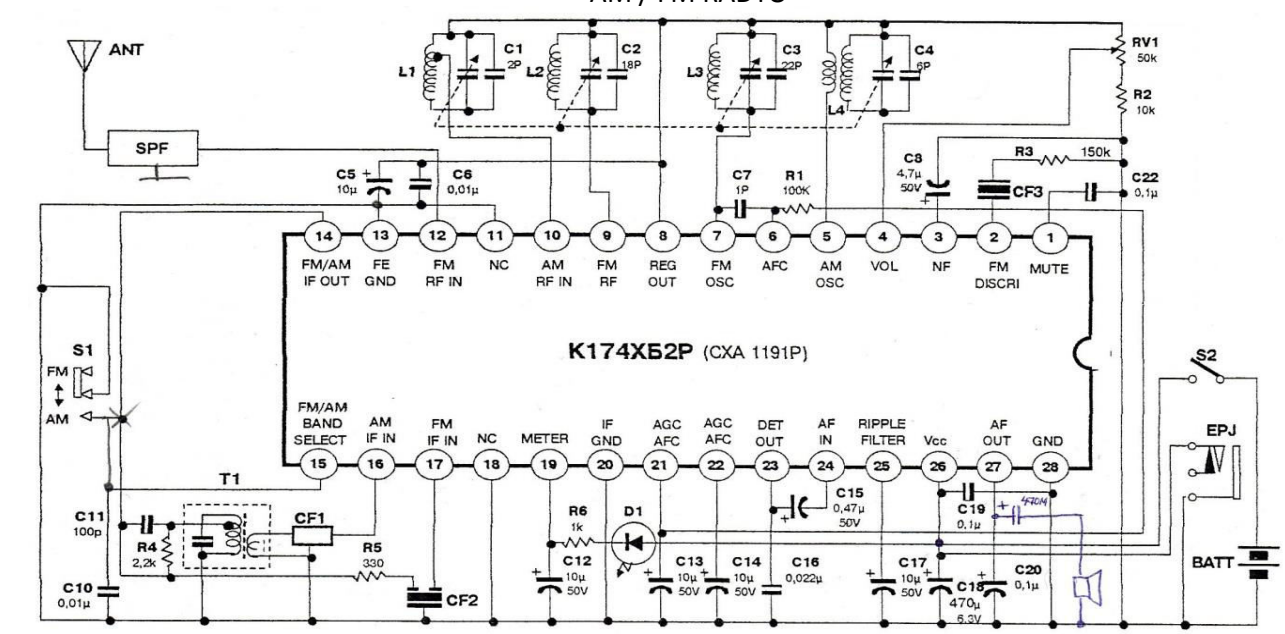
RADYO

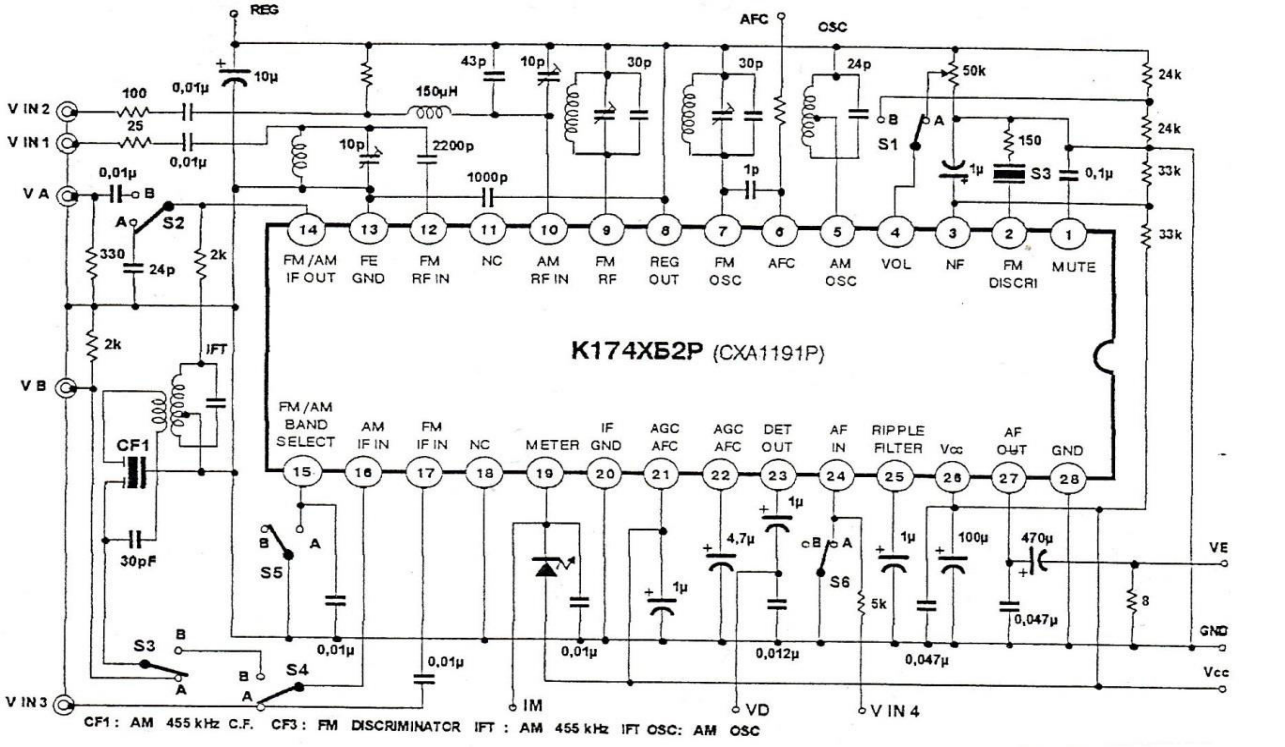


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

AM / FM RADYO





CXA1191S

AM / FM

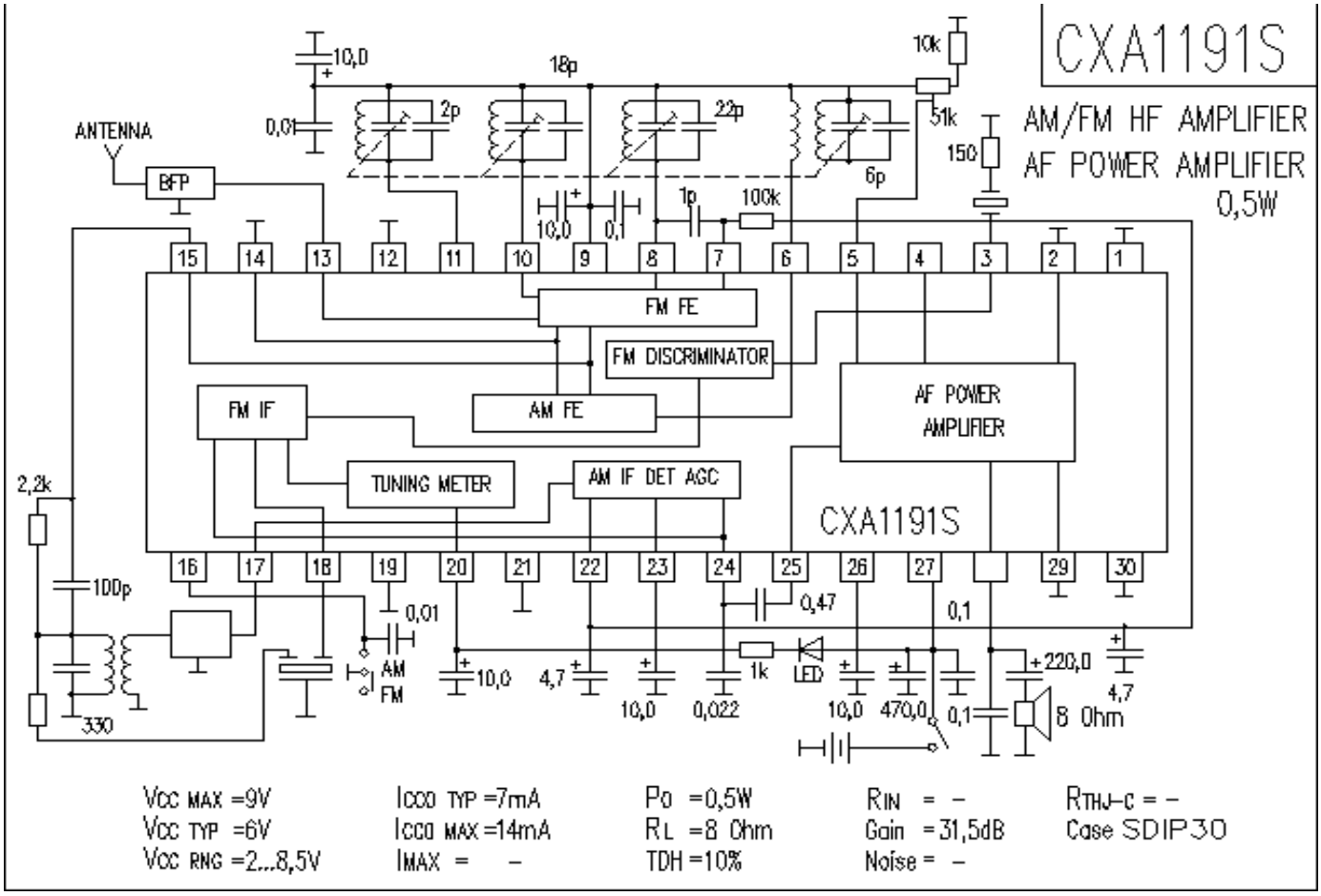
RADYO



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

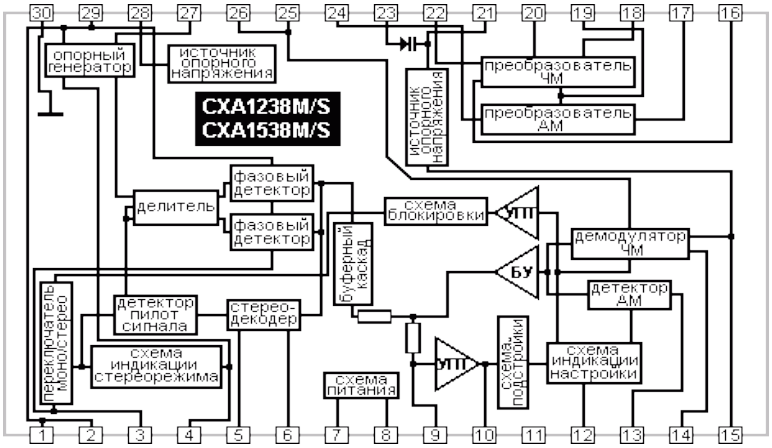
AM / FM RADYO



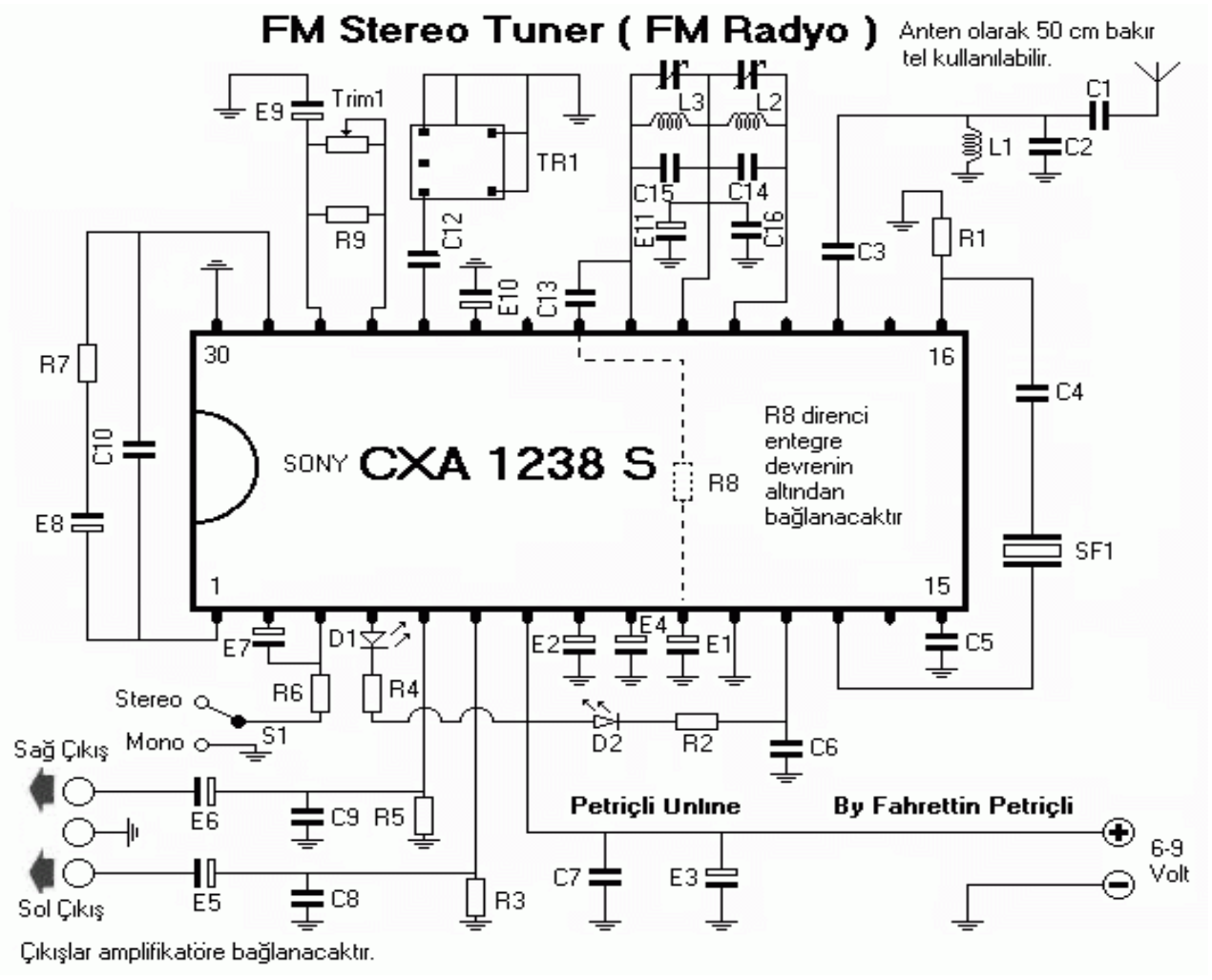
CXA1238 / CXA1538

AM / FM RADYO	

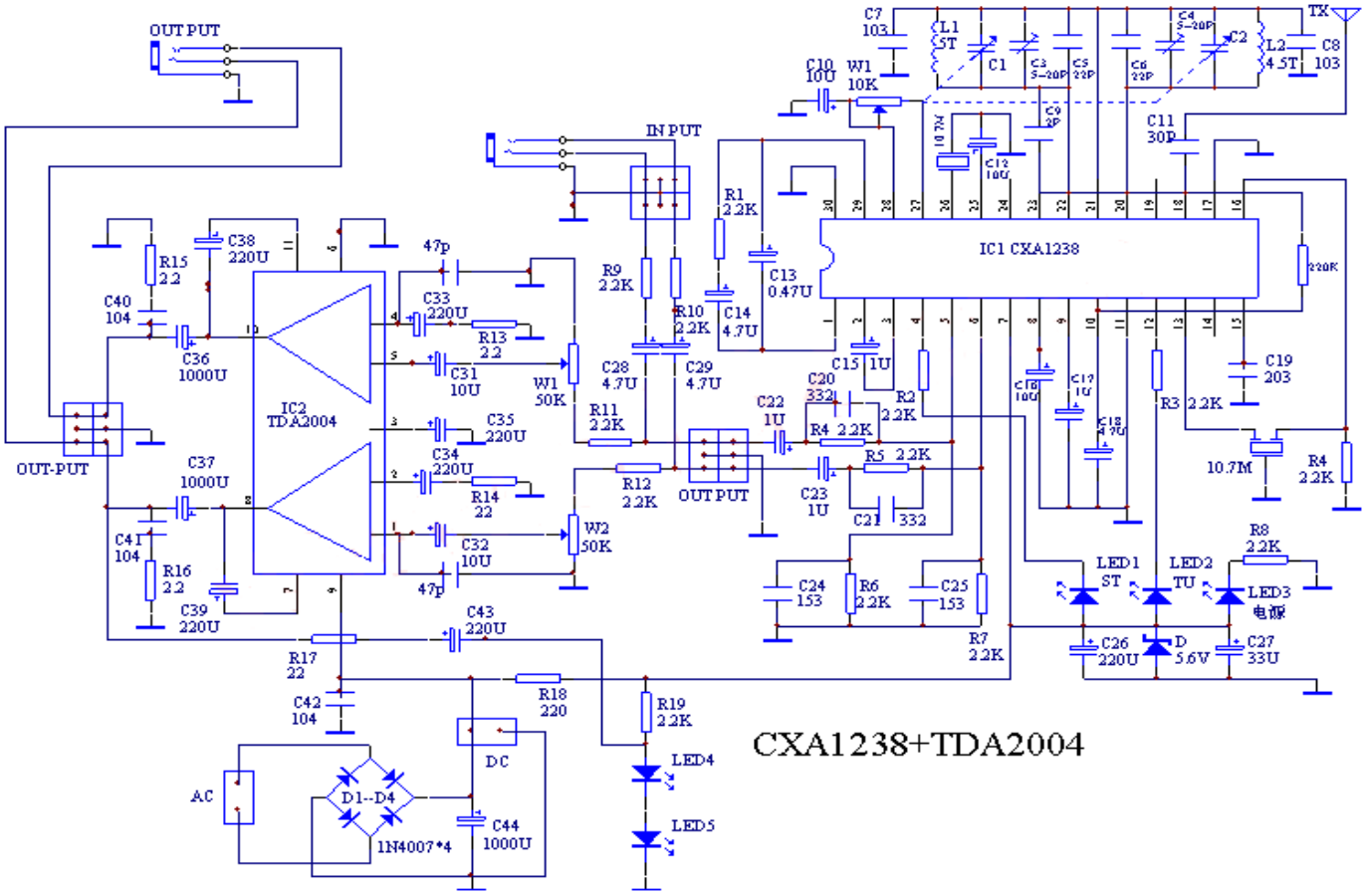
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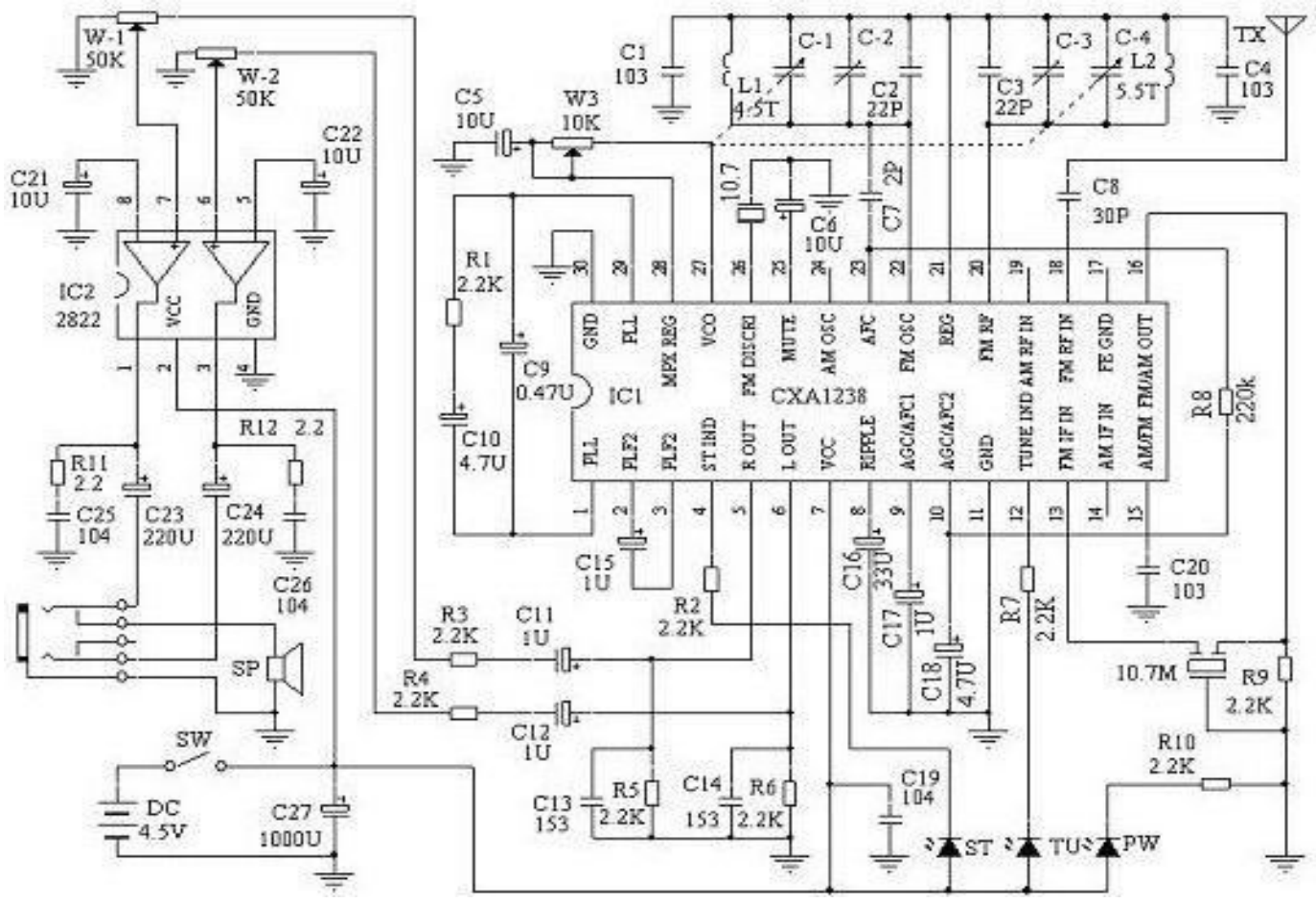
ÇEŞİTLİ DEVRE ŞEMALARI



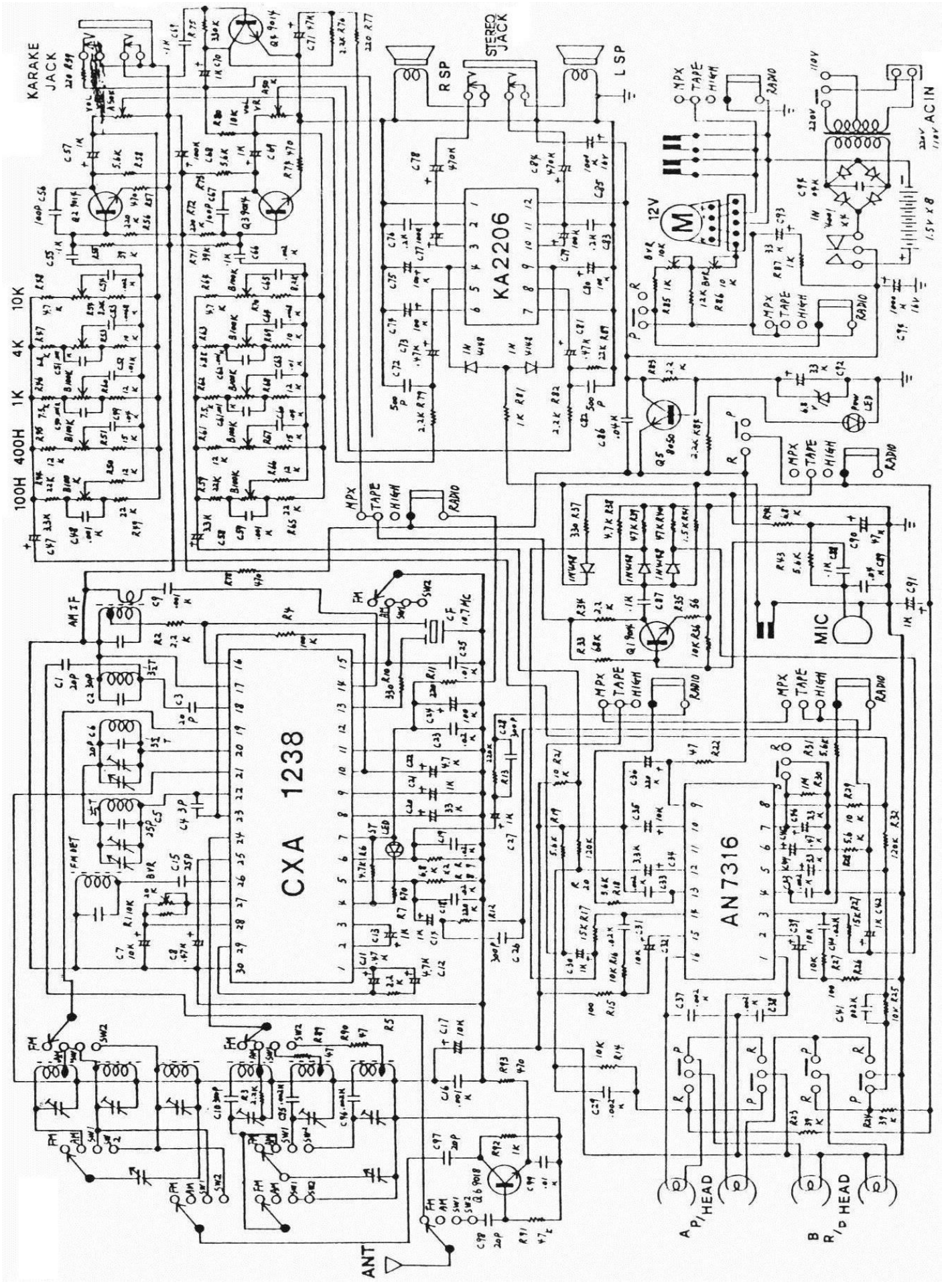
FM ALICI



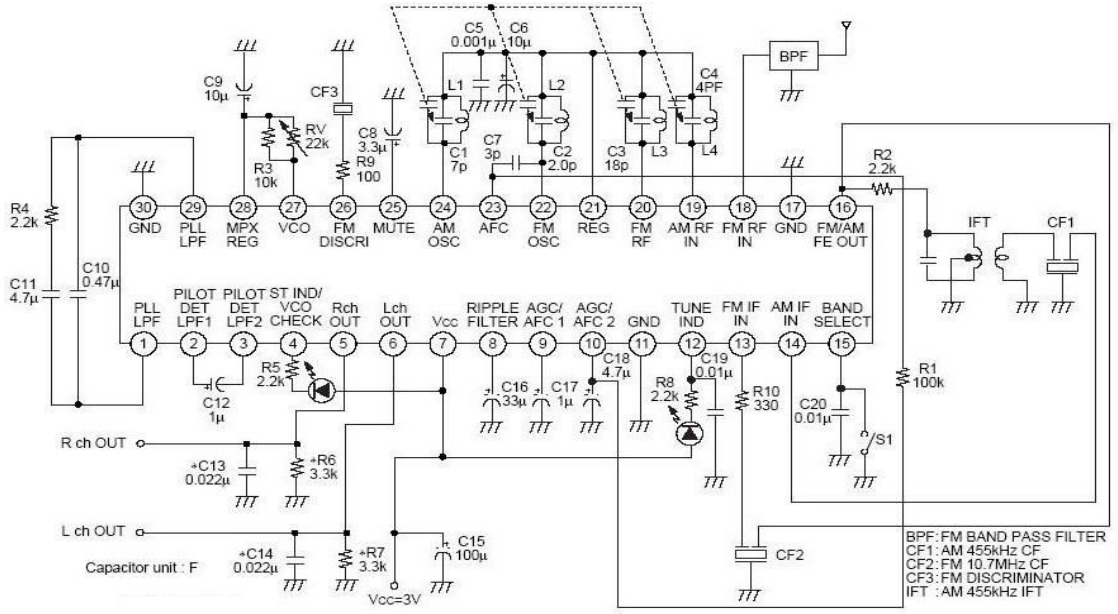
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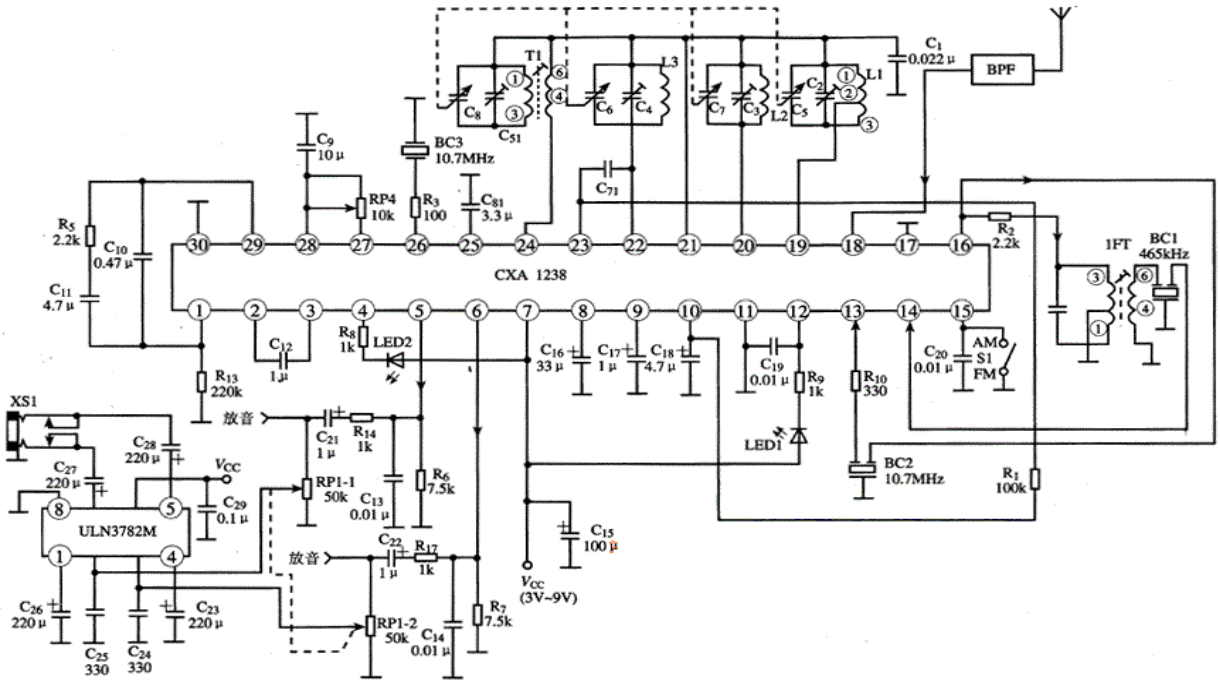
FM RADYO / TEYP DEVRESİ



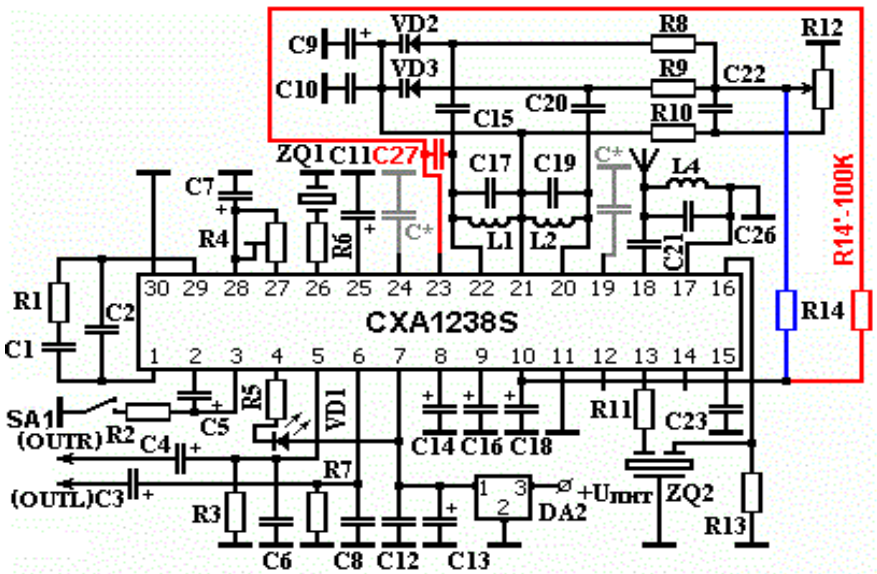
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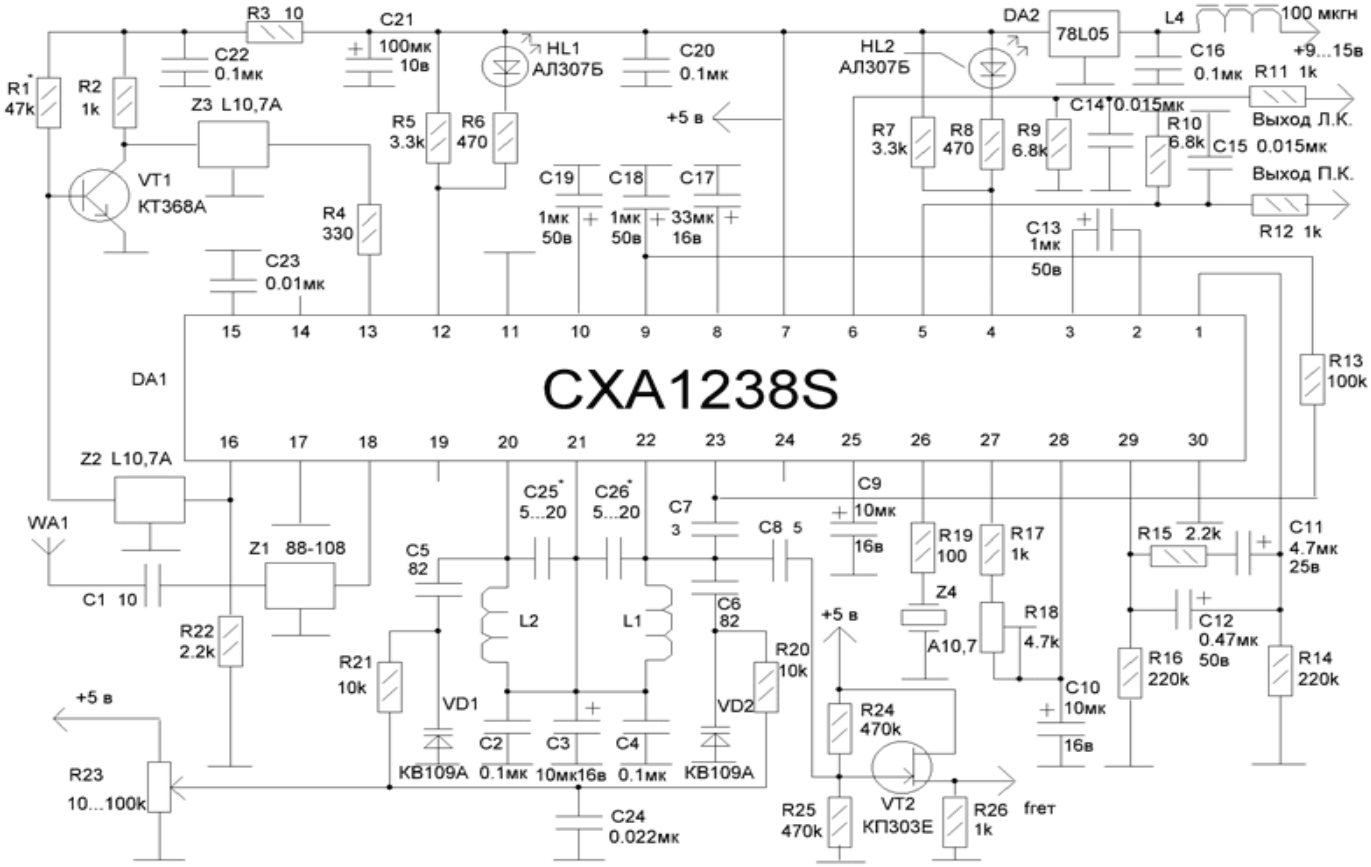
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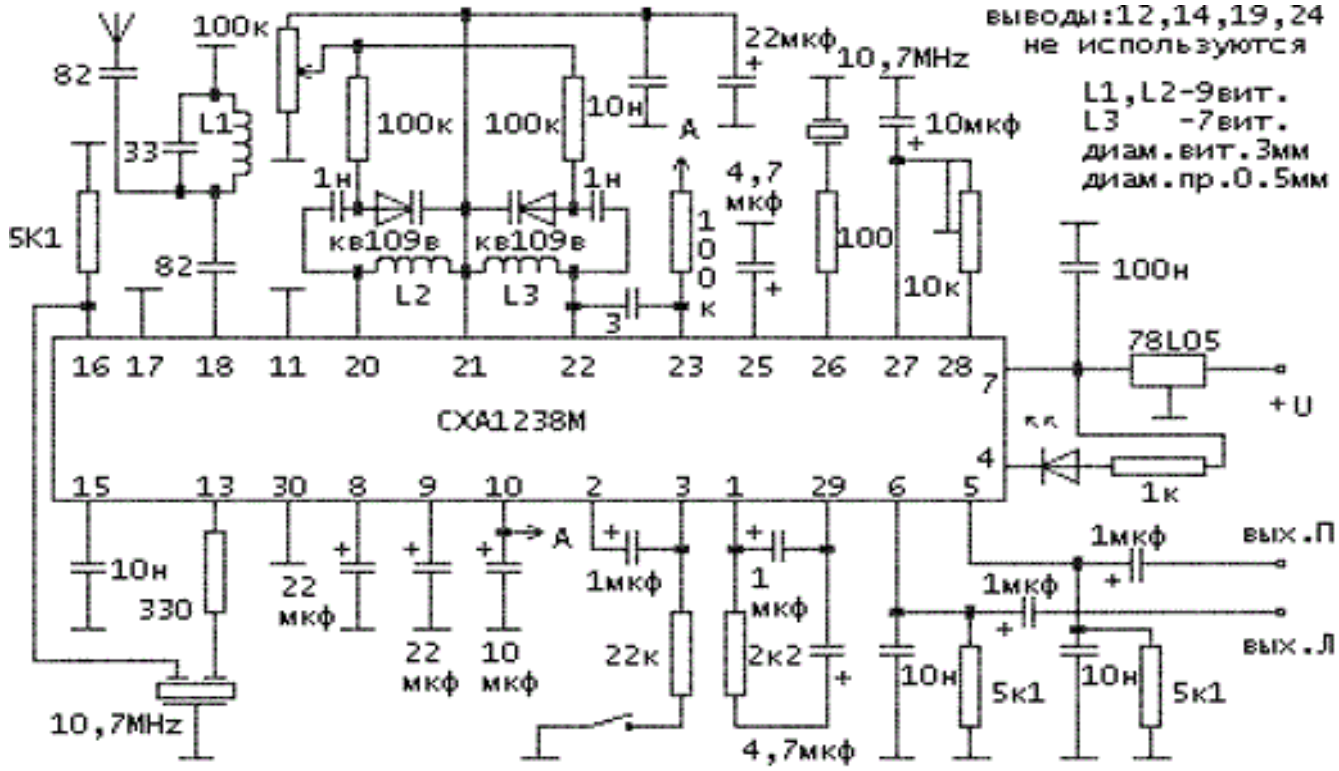
FM ALICI



FM ALICI

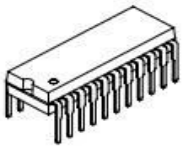


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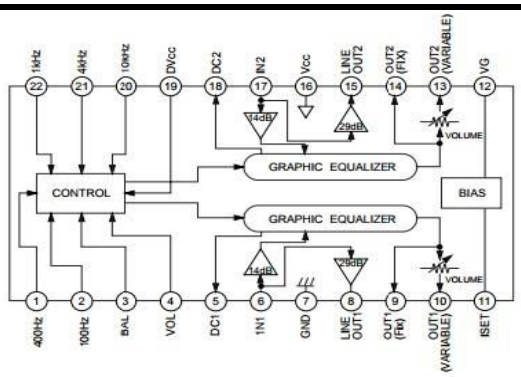


CXA1352AS

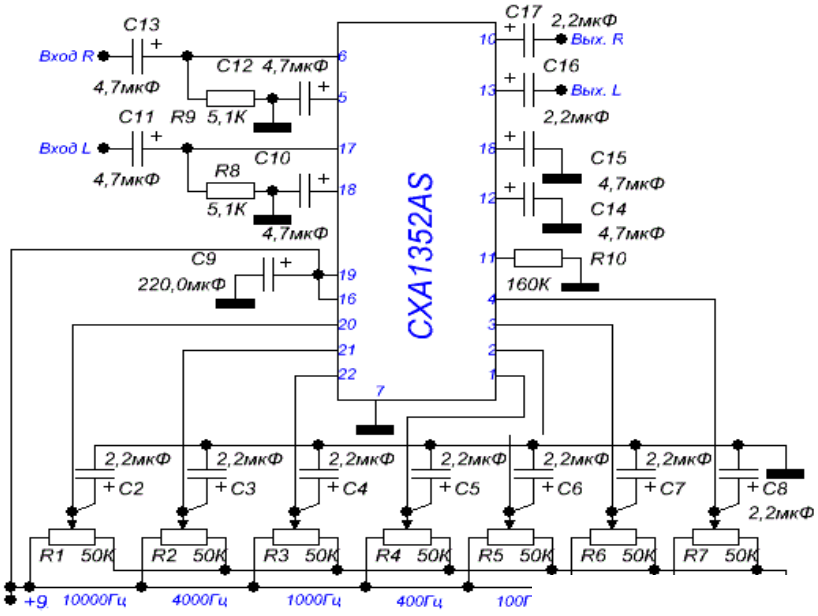
5 BAND GRAFİK EQUALİZER
VE TON KONTROL



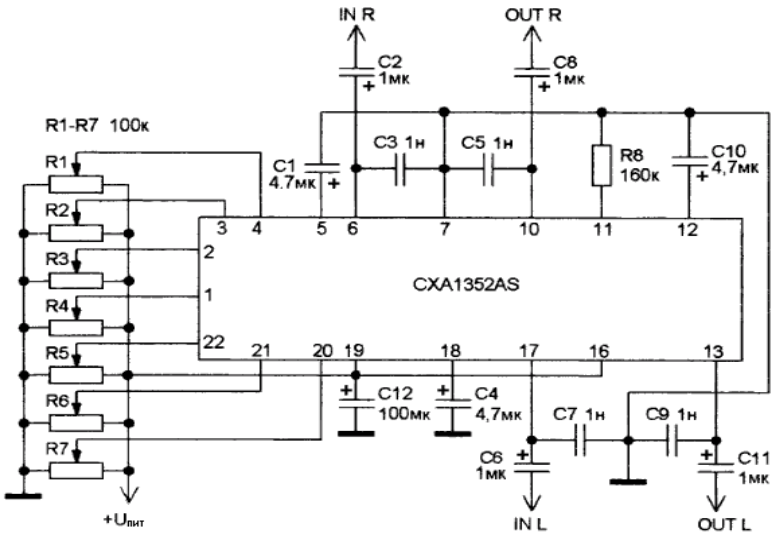
İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



5 BAND GRAFİK EQUALİZER



5 BAND GRAFİK EQUALİZER

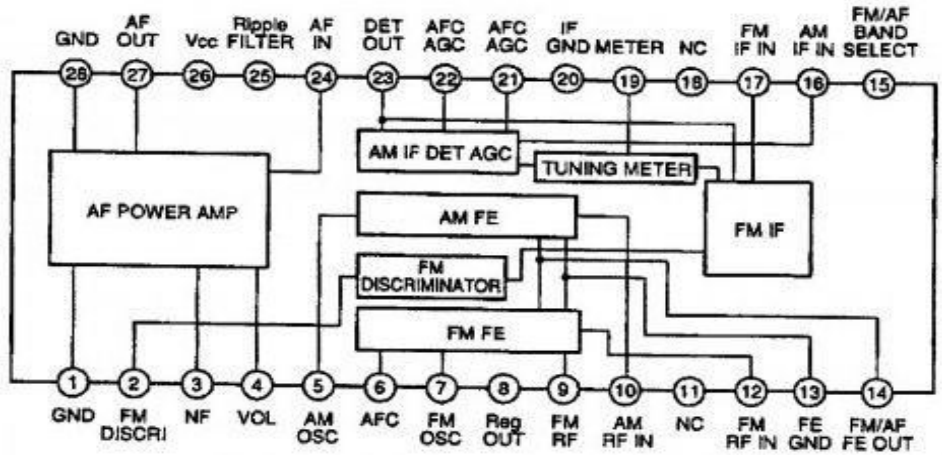
CXA1619

AM / FM

ALICI

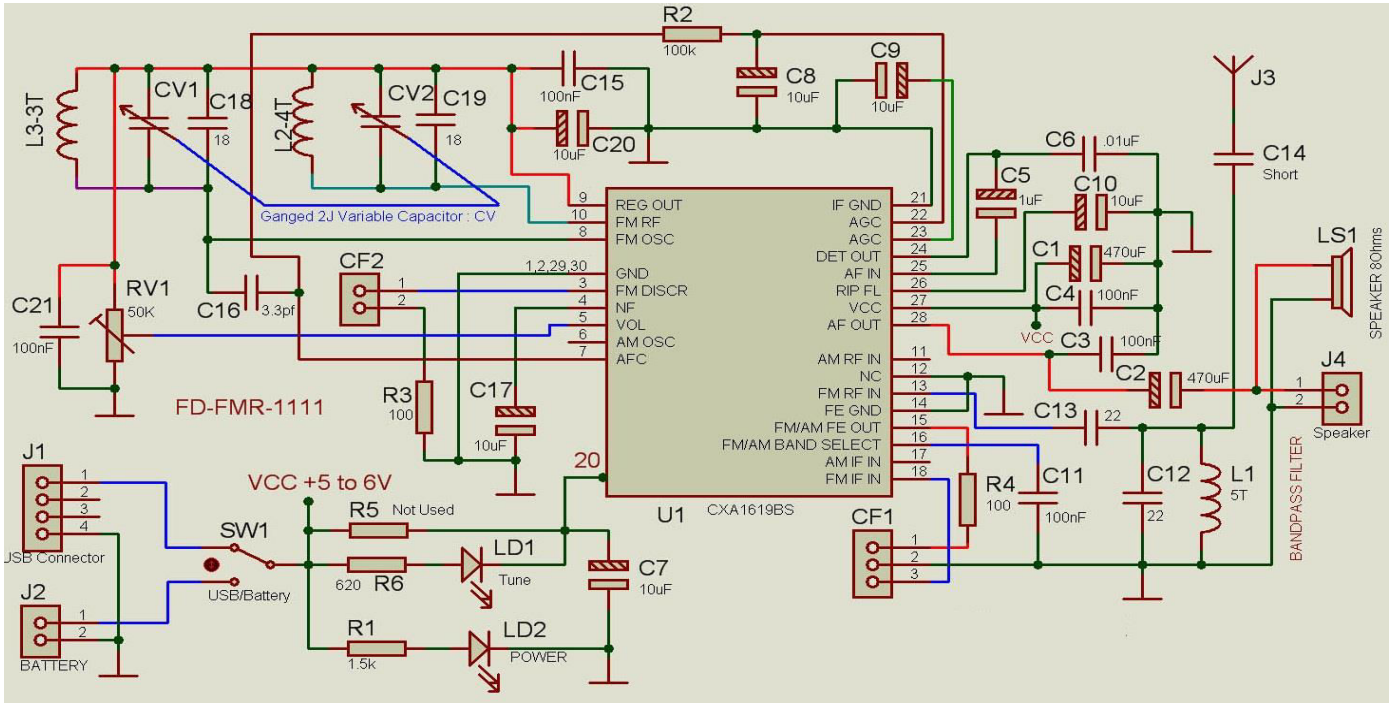


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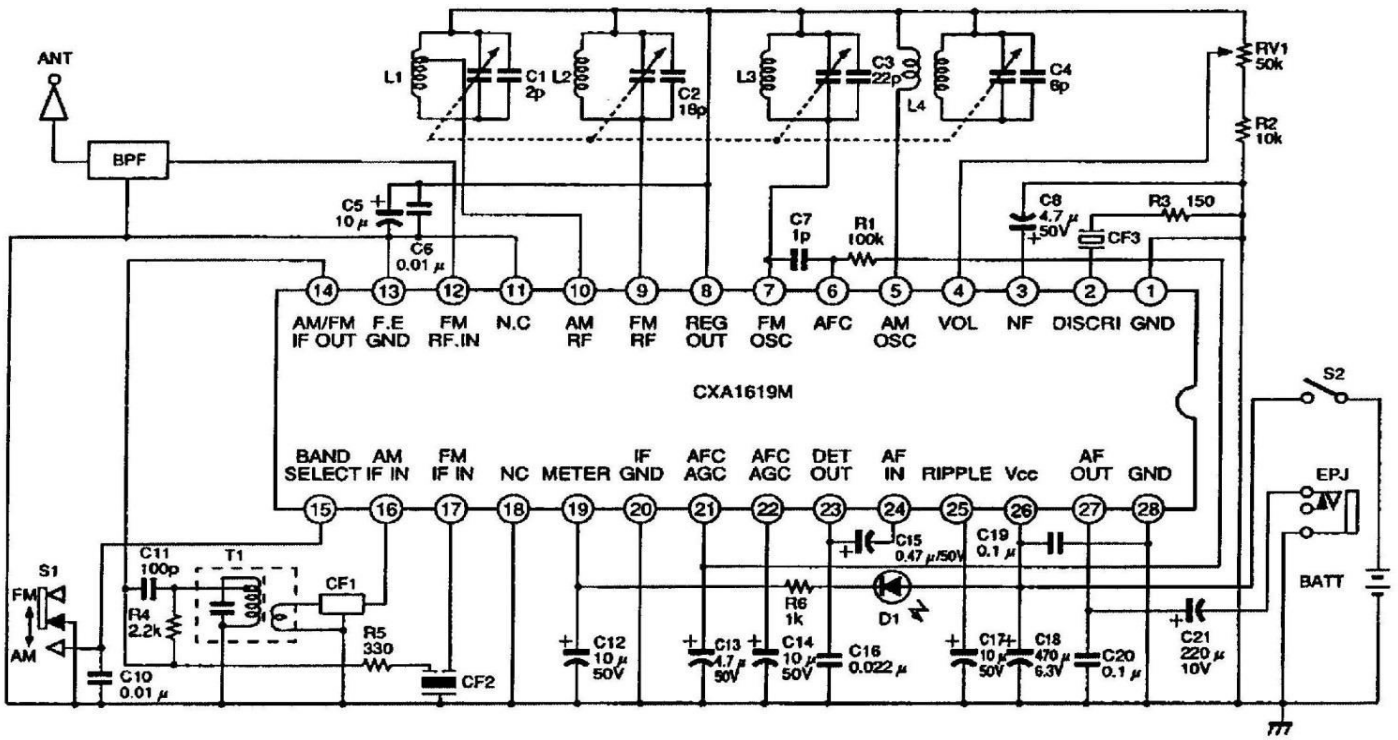


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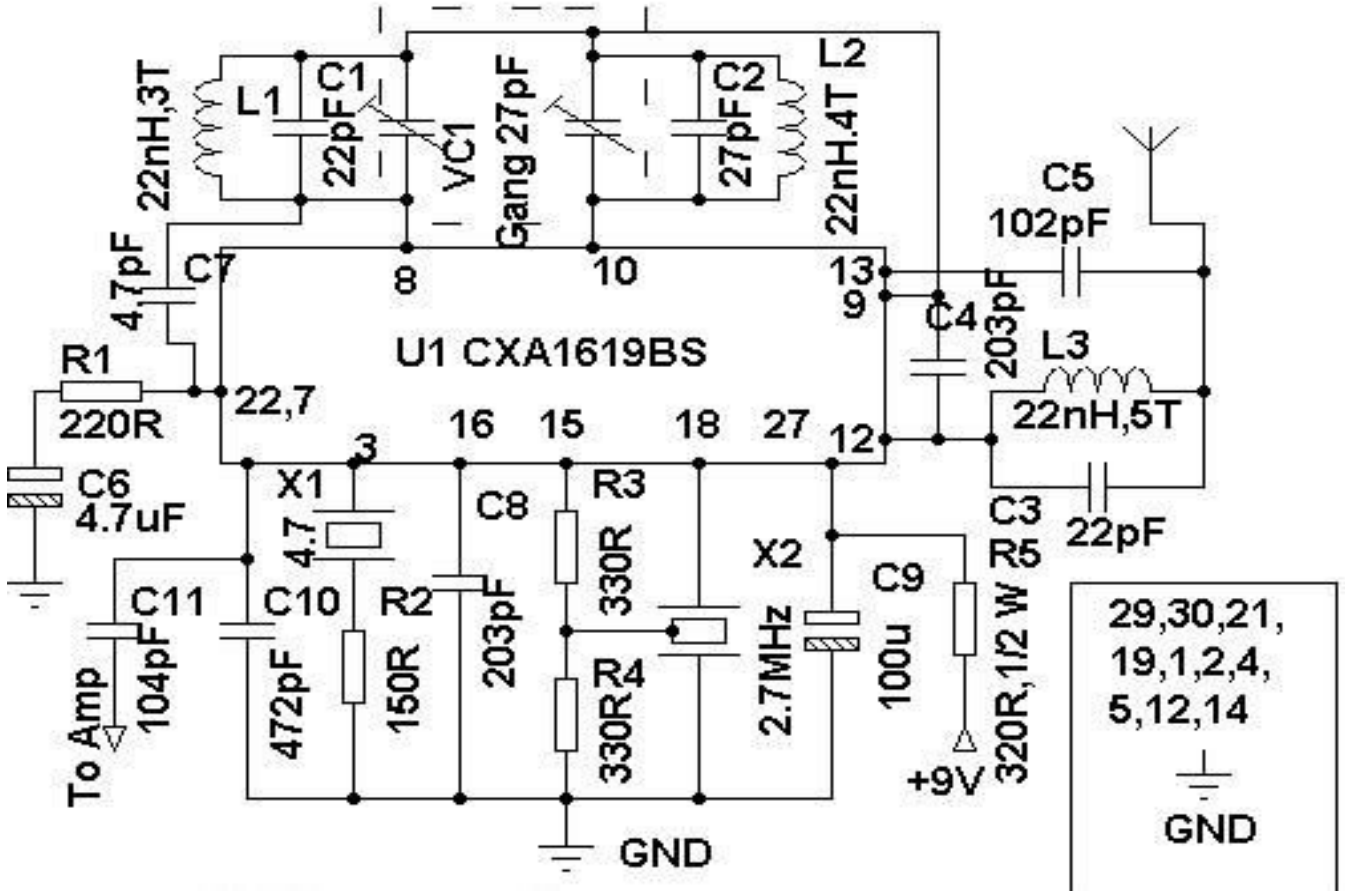
FM ALICI



AM / FM ALICI

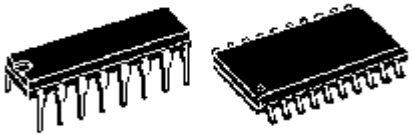


FM ALICI



D2025

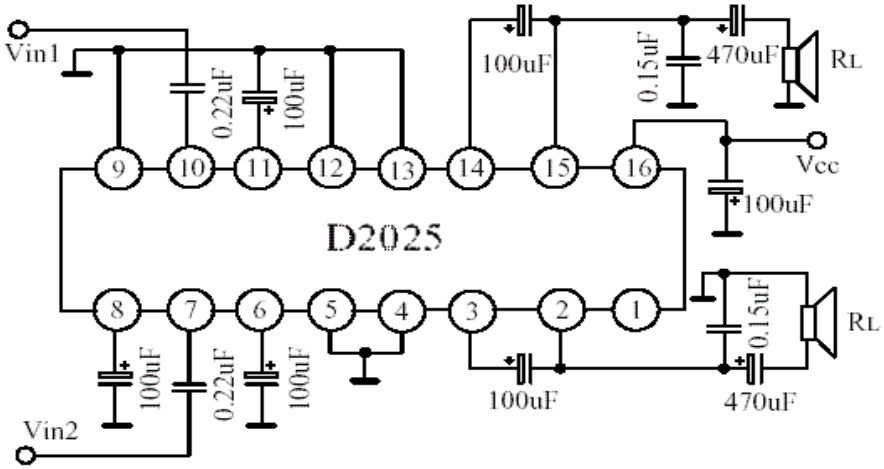
DÜŞÜK GÜÇLÜ
STEREO AMPLİFİKATÖR



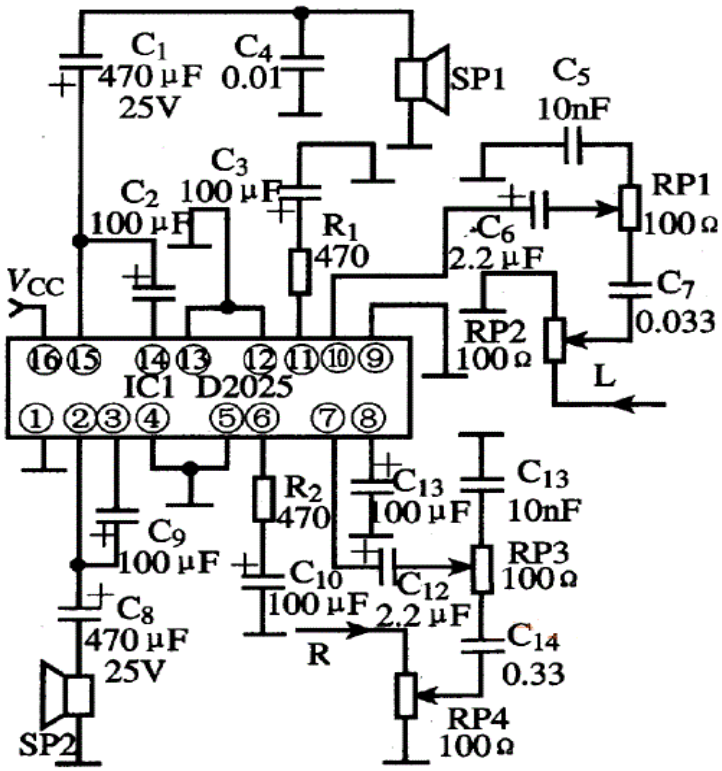
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ÇEŞİTLİ DEVRE ŞEMALARI

DÜŞÜK GÜÇLÜ STEREO AMPLİFİKATÖR



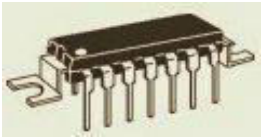
DÜŞÜK GÜÇLÜ STEREO AMPLİFİKATÖR



3 VOLT ÇIKIŞ GÜCÜ: 0.1 WATT
6 VOLT ÇIKIŞ GÜCÜ: 1 WATT
9 VOLT ÇIKIŞ GÜCÜ: 2,3 WATT

DA1 5G31 /A-B-C

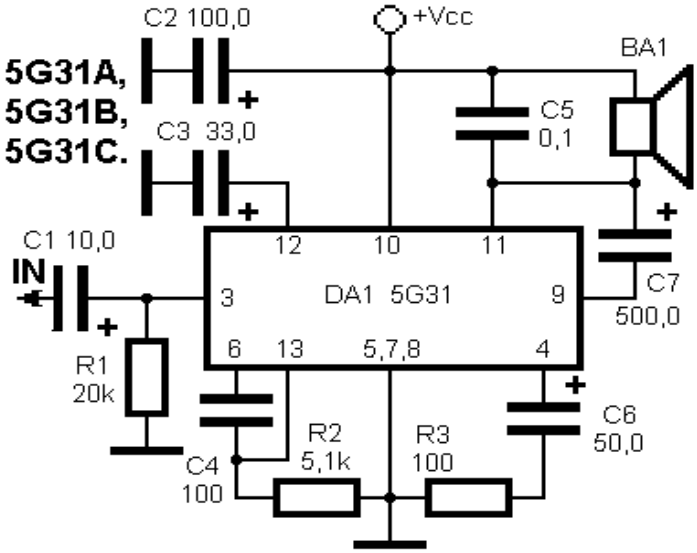
DÜŞÜK GÜÇLÜ
MONO AMPLİFİKATÖR



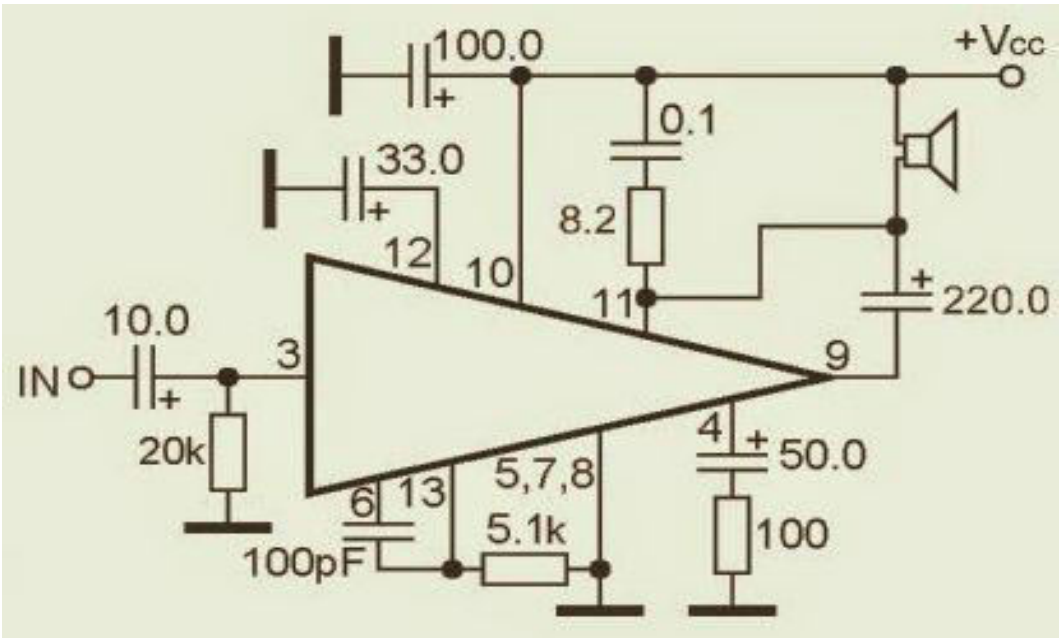
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

DÜŞÜK GÜÇLÜ MONO AMPLİFİKATÖR



5G31A	0,4 WATT
5G31B	0,7 WATT
5G31C	1 WATT



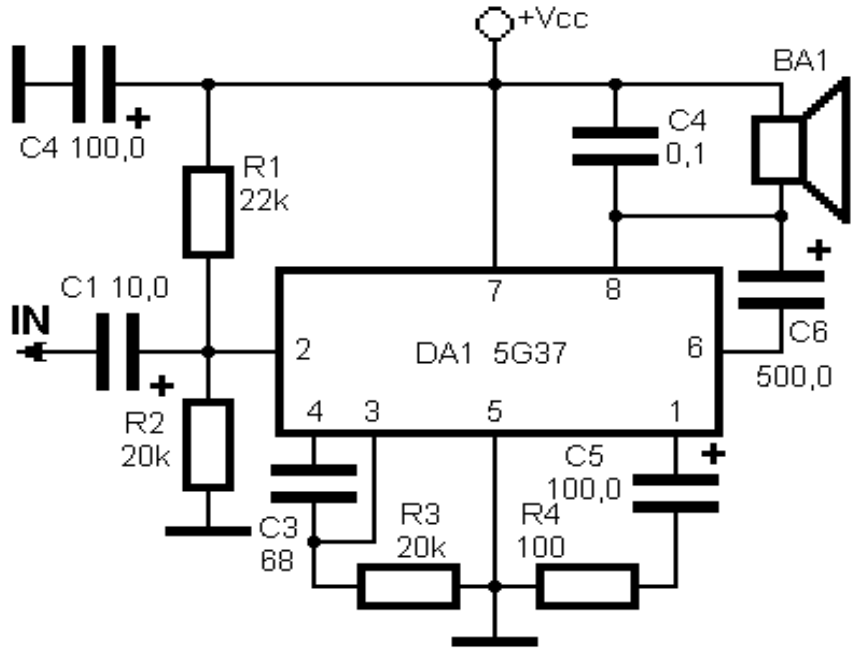
DA1 5G37

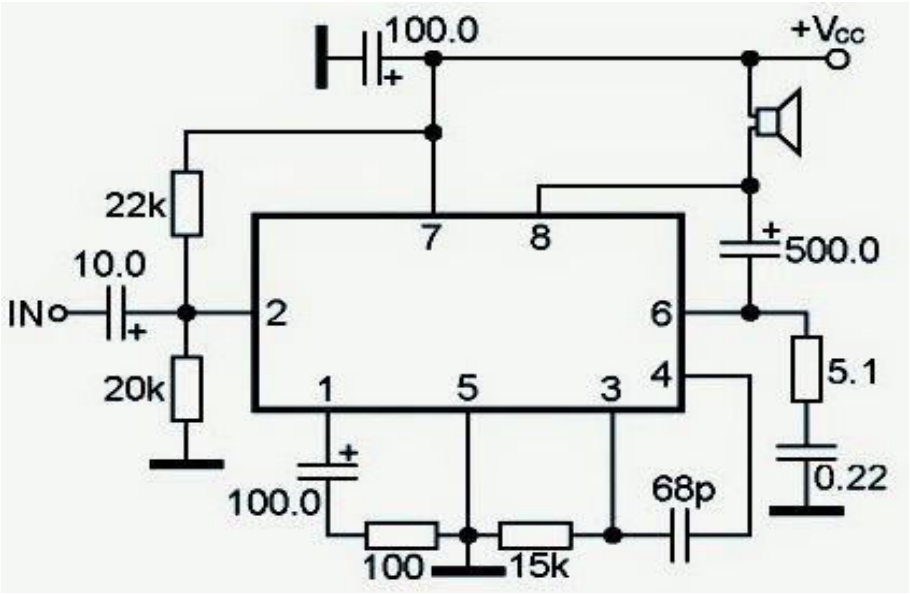
2 WATT MONO AMPLİFİKATÖR	

İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

2 WATT MONO AMPLİFİKATÖR

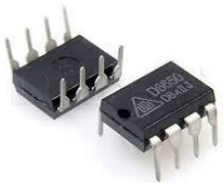




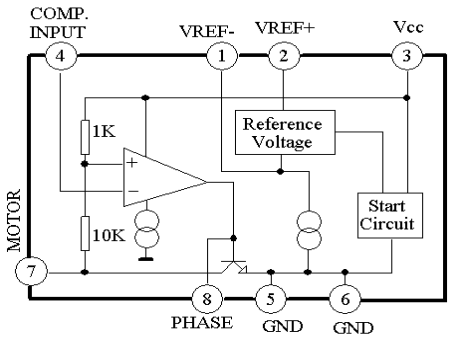
D6650

TEYP MOTOR

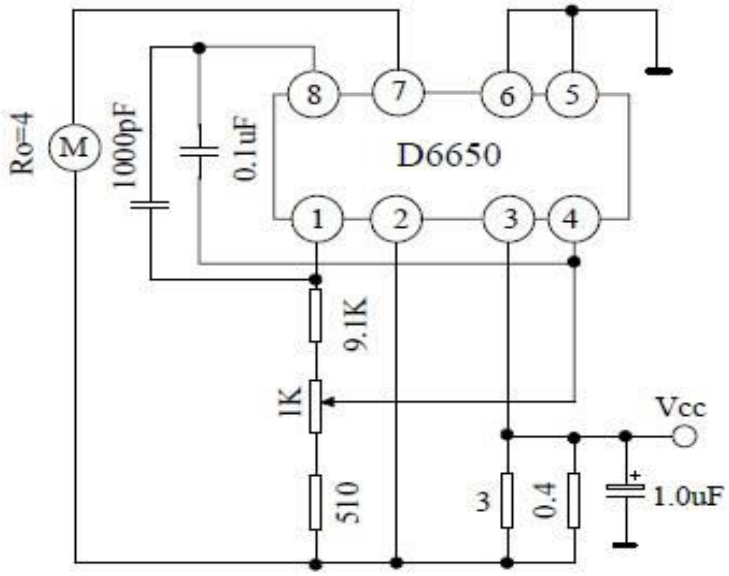
HIZ REGÜLATÖRÜ



İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

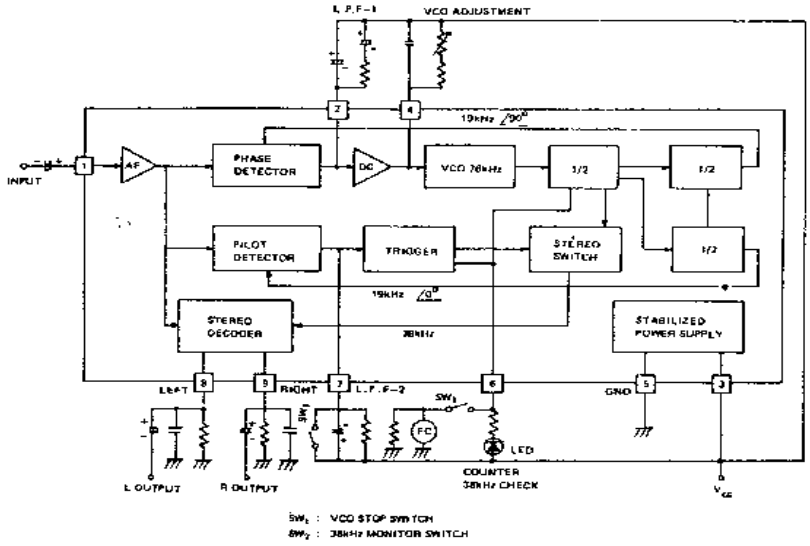


DBL1009

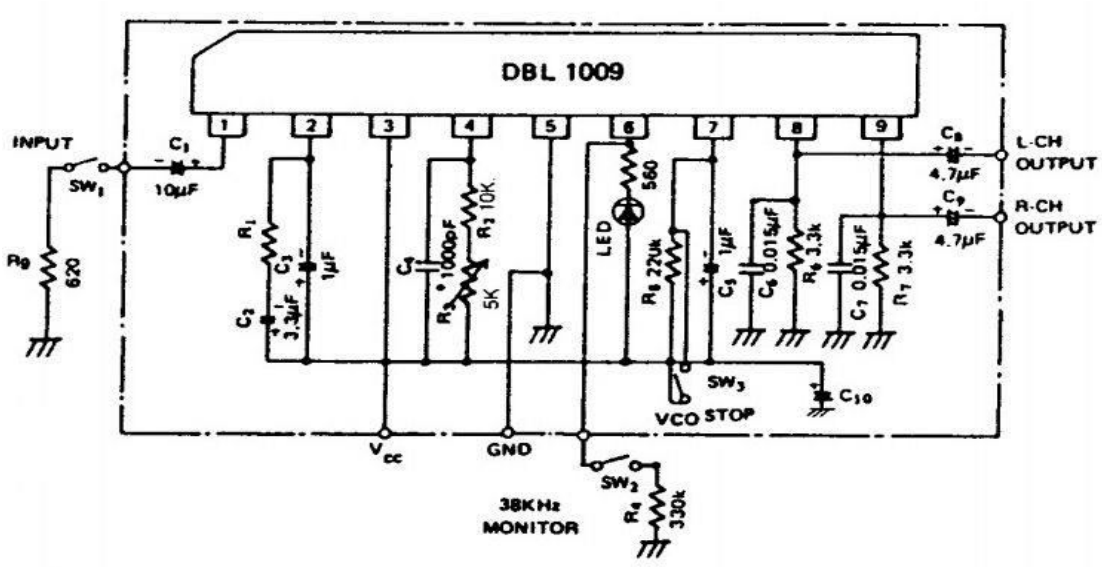
PLL FM STEREO MULTİPLEX DEKODER



İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



* Each C_6 and C_7 is 0.015μF for Demphasis (50 μsec) but 0.022μF for (75μsec)

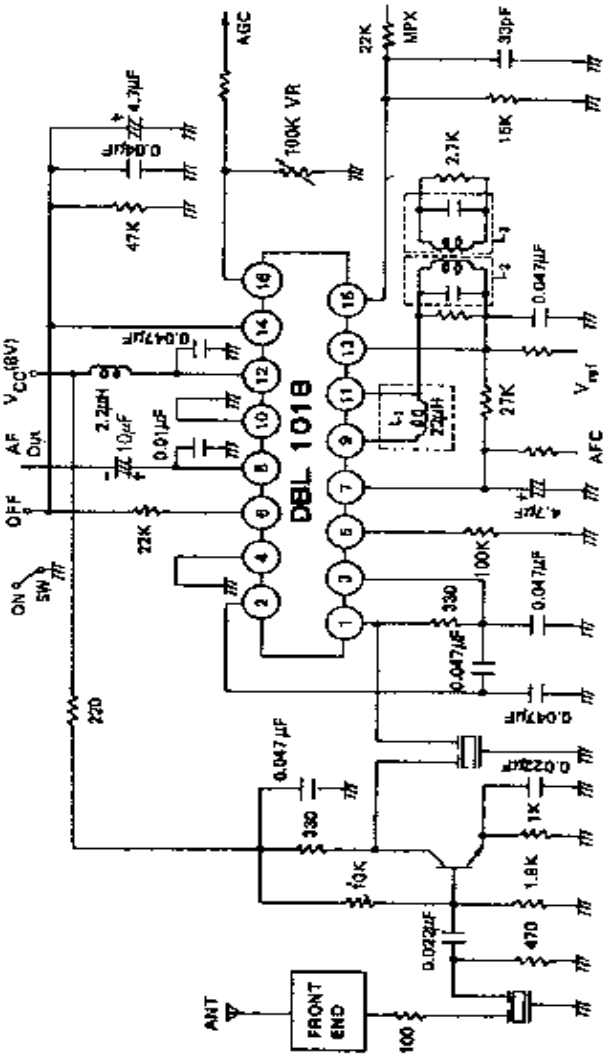
DBL1018

FM IF (ARA FREKANS) AMPLİFİKATÖRÜ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



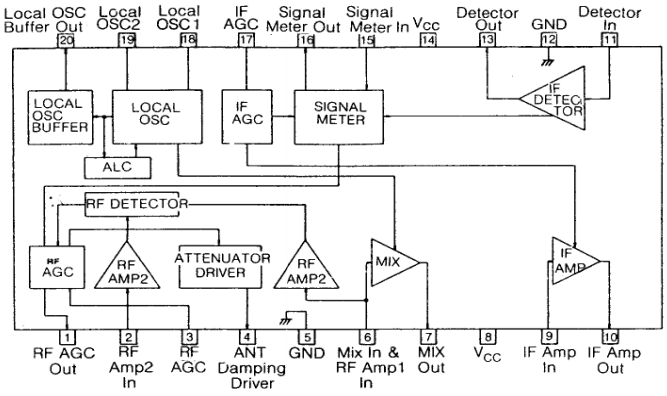
DBL1019 (LA1135)

AM

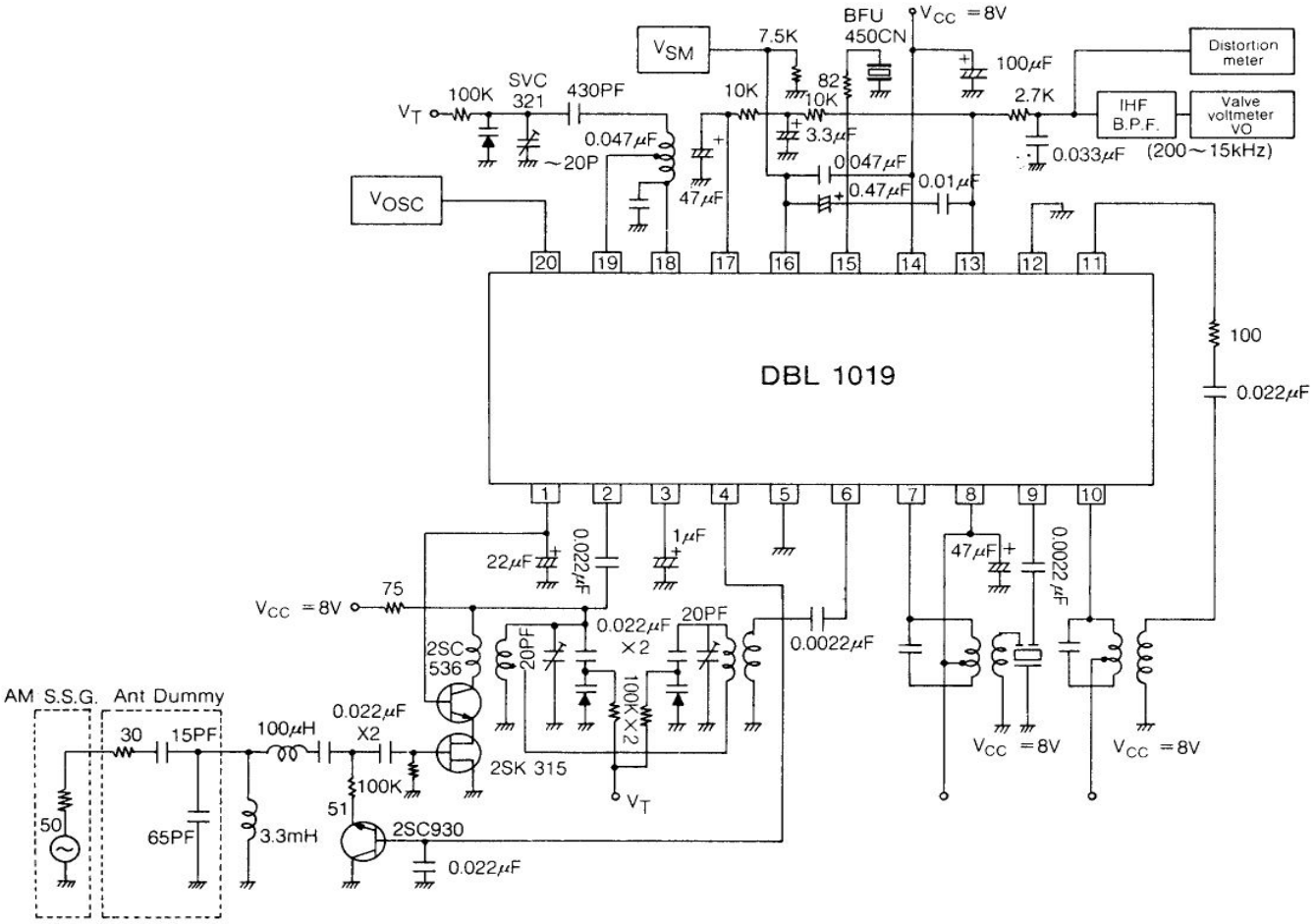
TUNER

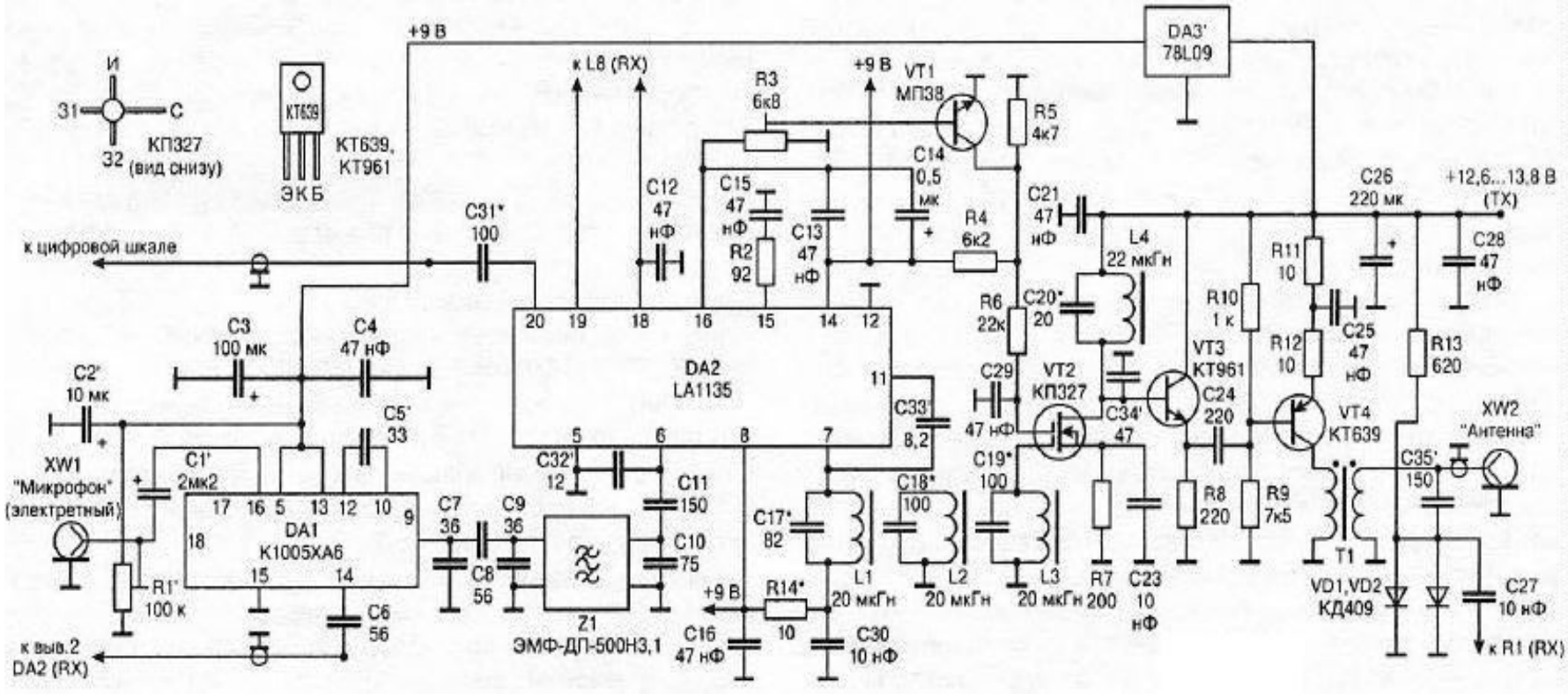


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



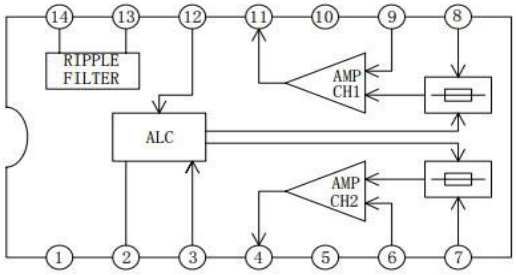

+9 В
DA3' 78L09
И
З1
С
32
КП327 (вид снизу)
КТ639
ЭКБ
КТ639, КТ961
к L8 (RX)
+9 В
R3 6к8
VT1 МП38
R5 4к7
C14 0,5 мк
C12 47 нФ
C15 47 нФ
C13 47 нФ
R2 92
C31* 100
R4 6к2
C21 47 нФ
C26 220 мк
+12,6...13,8 В (TX)
к цифровой шкале
L4 22 мкГн
C28 47 нФ
R11 10
R10 1 к
R12 10
C25 47 нФ
R13 620
R6 22к
C20* 20
C3 100 мк
C4 47 нФ
C2' 10 мк
DA2 LA1135
C29 47 нФ
VT2 КП327
VT3 КТ961
C24 220
C34' 47
VT4 КТ639
XW2 "Антенна"
C5' 33
C33' 8,2
C32' 12
C19* 100
C35' 150
XW1 "Микрофон" (электретный)
C1' 2мк2
DA1 К1005ХА6
C11 150
C10 75
C7 36
C9 36
C8 56
C6 56
C17* 82
C18* 100
L1 20 мкГн
L2 20 мкГн
L3 20 мкГн
R8 220
R9 7к5
R7 200
C23 10 нФ
T1
VD1,VD2 КД409
C27 10 нФ
R1' 100 к
Z1 ЭМФ-ДП-500Н3,1
R14* 10
C16 47 нФ
C30 10 нФ
к выв.2 DA2 (RX)
к R1 (RX)

DBL1027

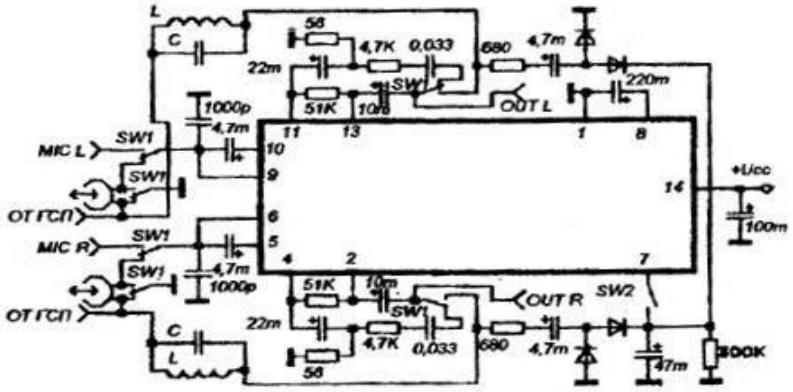
STEREO TEYP KAYIT VE OKUMA PREAMPLİFİKATÖRÜ

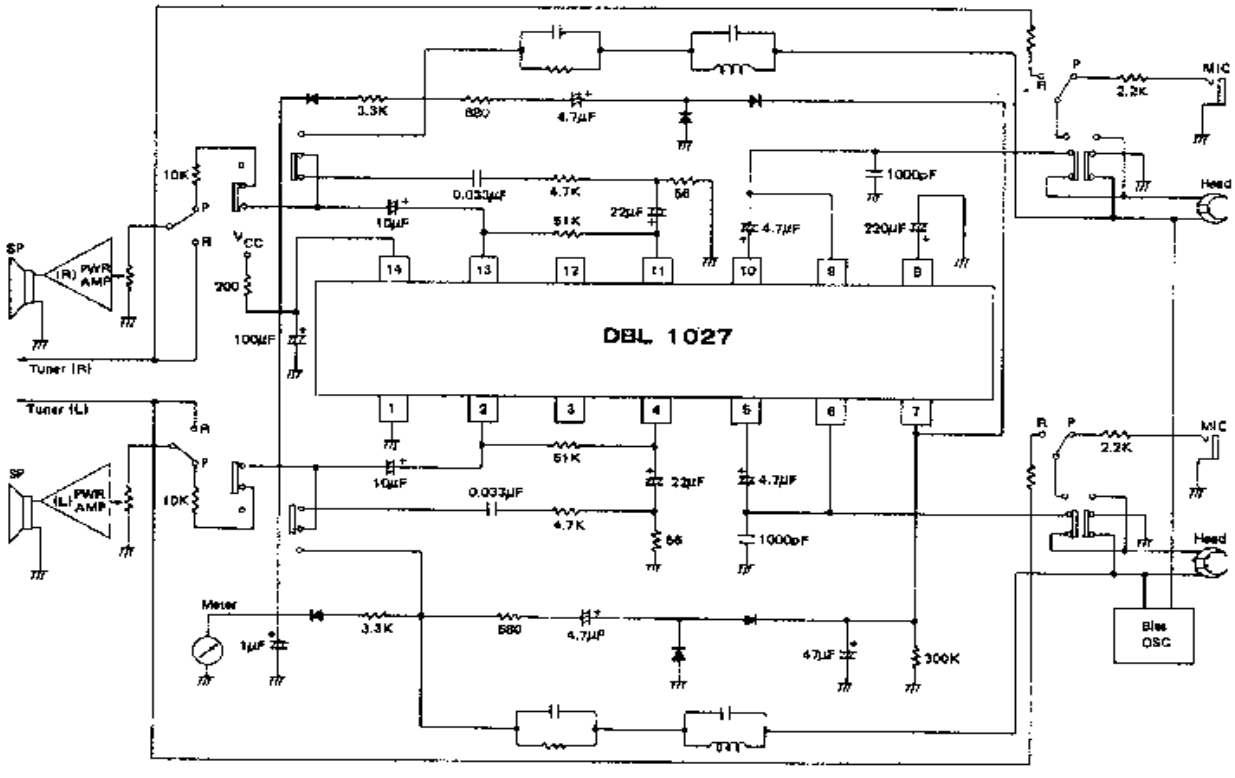


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



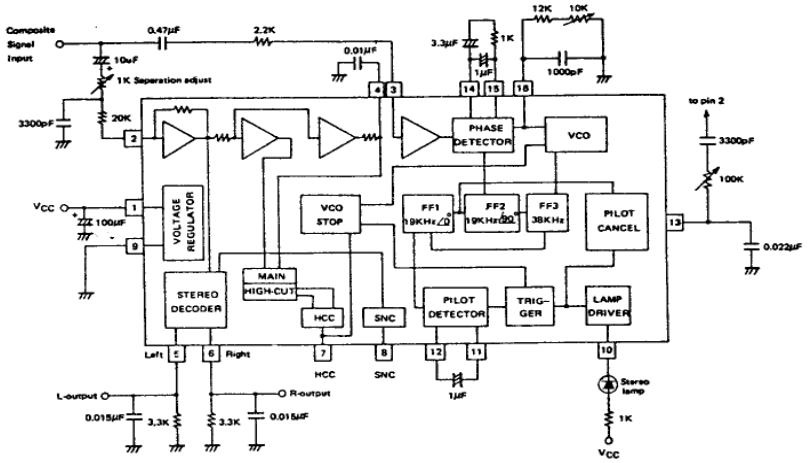


DBL1035

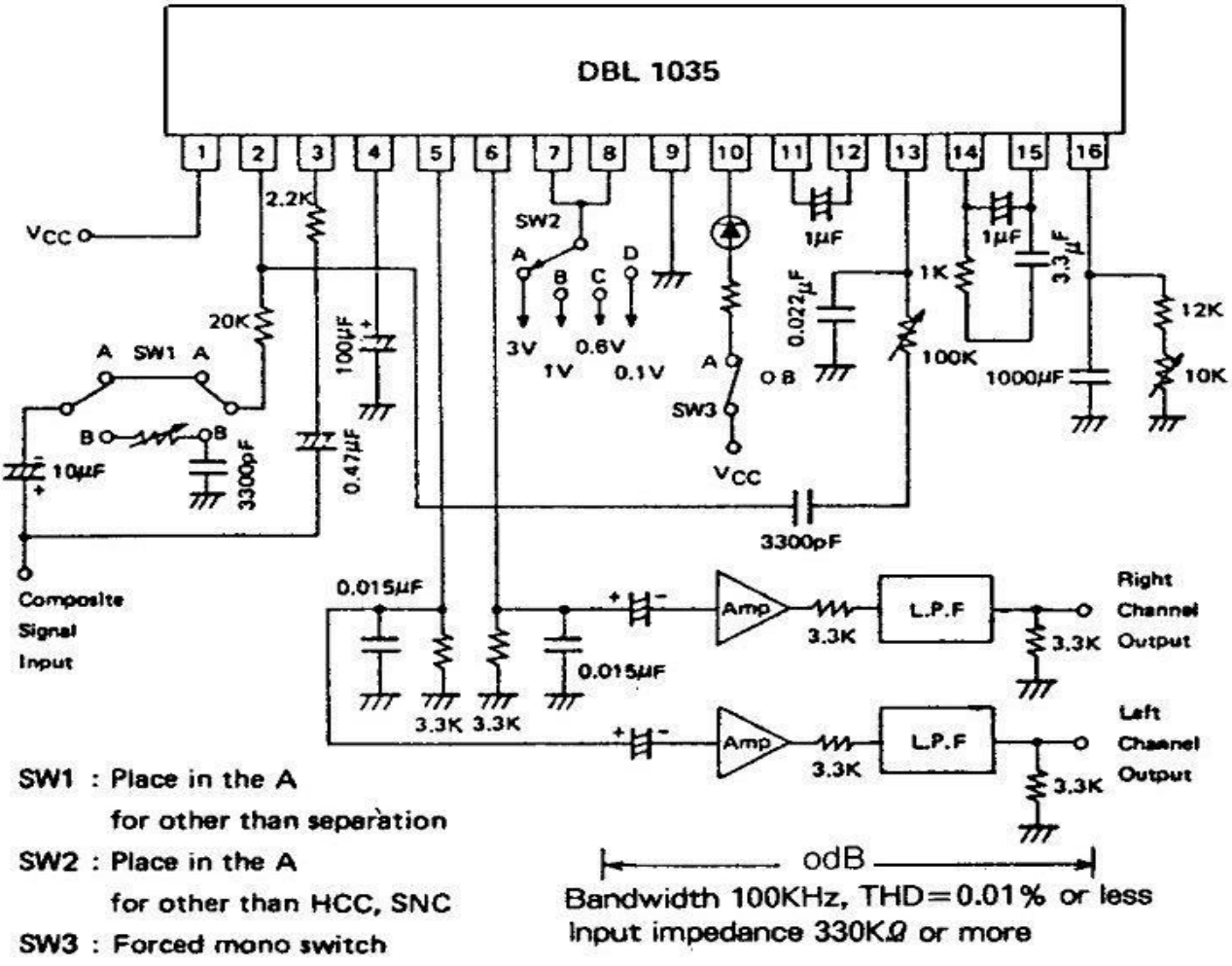
PLL FM STEREO MULTİPLEX



İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



FAN7710

20 WATT

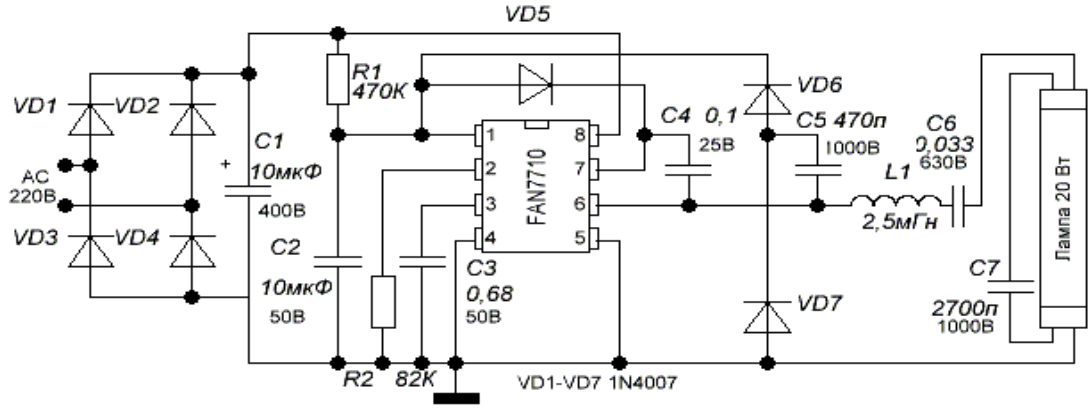
ELEKTRONİK BALAST

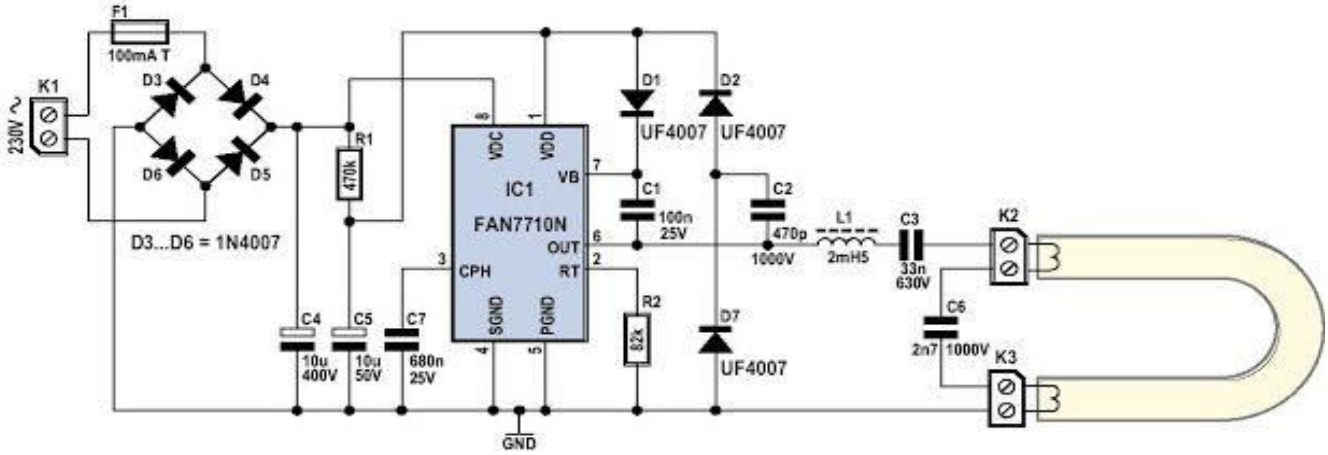


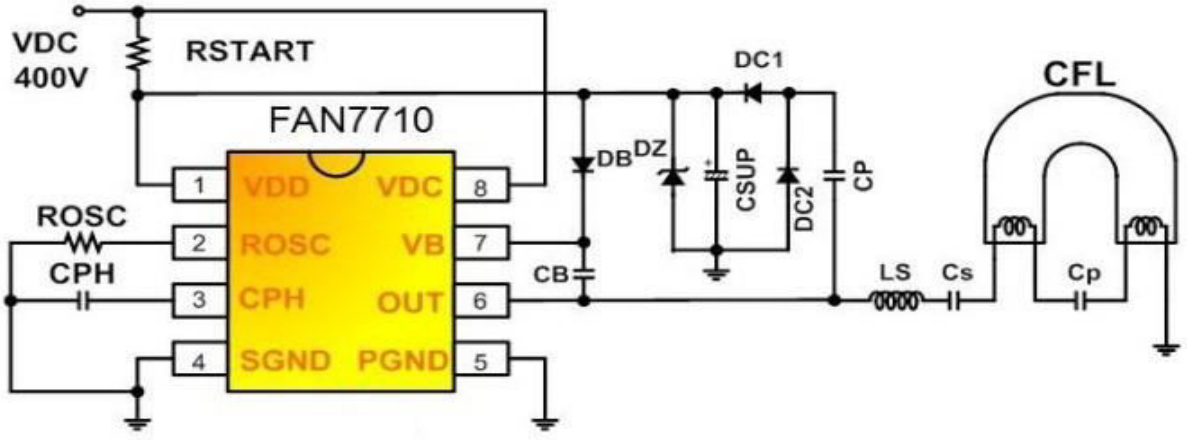
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

20 WATT ELEKTRONİK BALAST



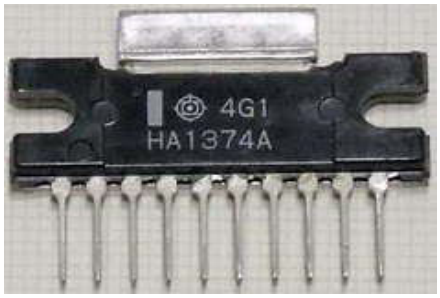




HA1374

5 WATT

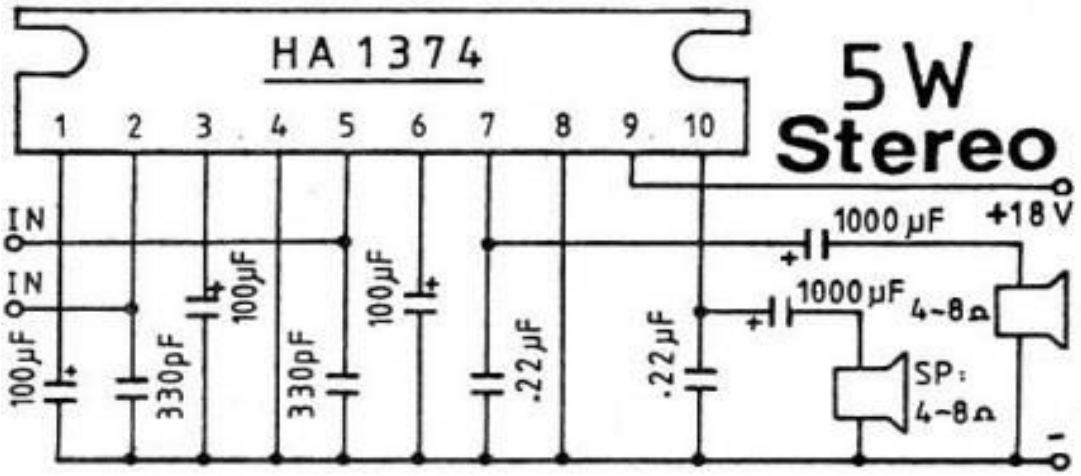
STEREO AMPLİFİKATÖR

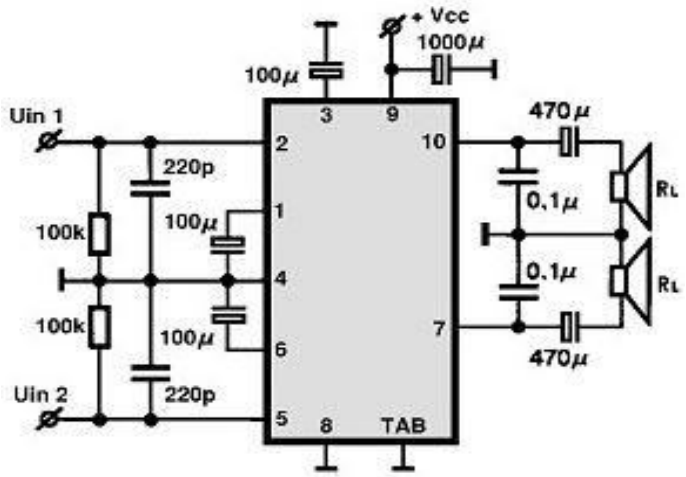


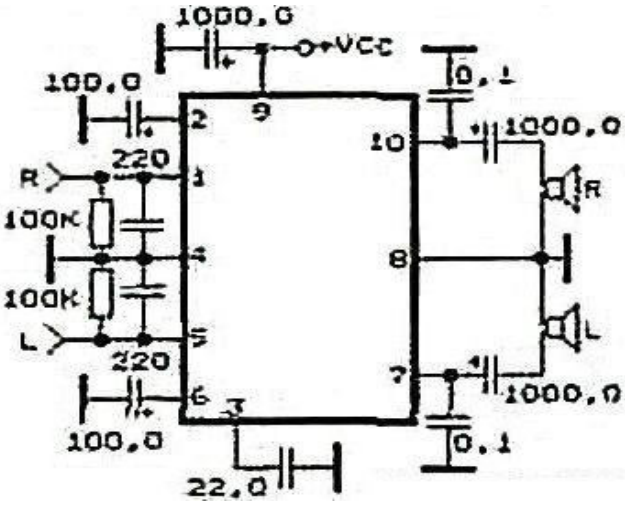
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ÇEŞİTLİ DEVRE ŞEMALARI

5 WATT STEREO AMPLİFİKATÖR







HA1377

5 WATT

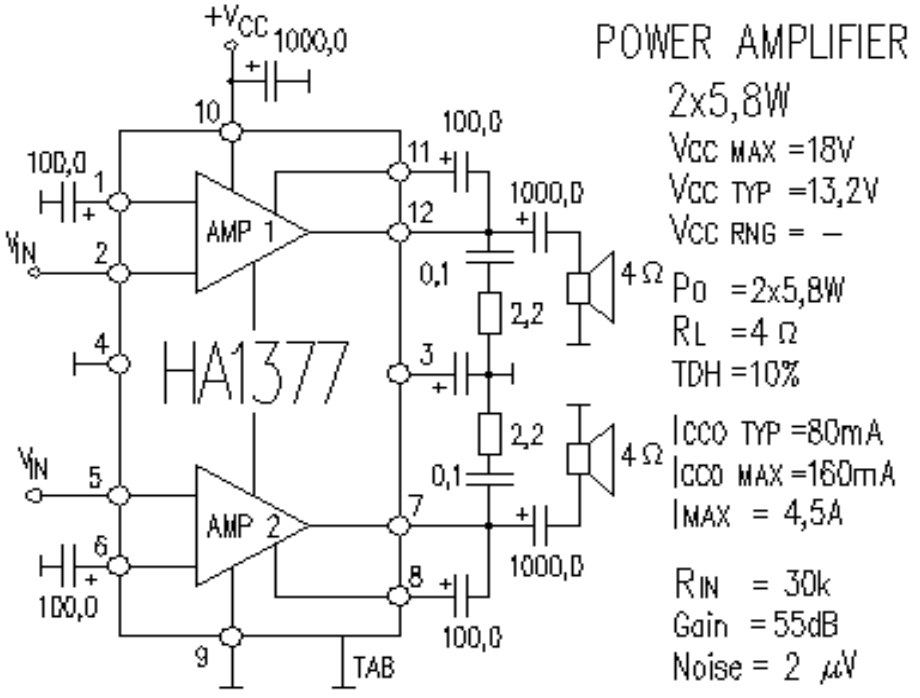
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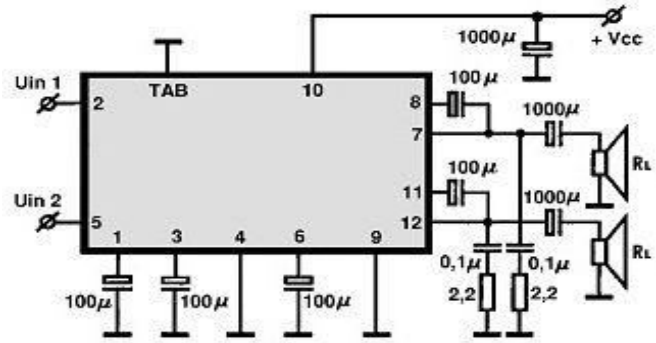


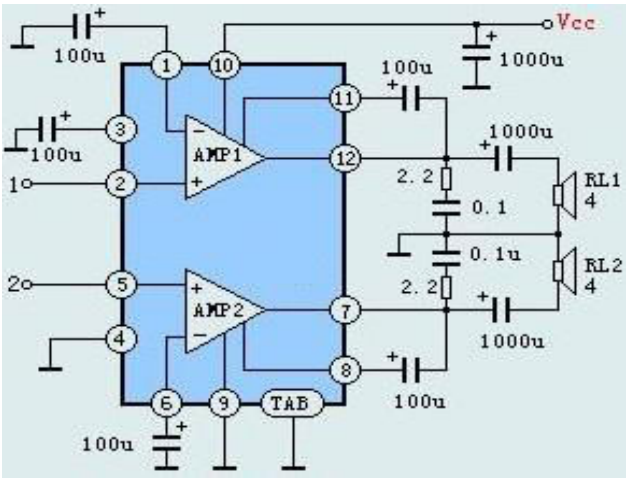
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5 WATT STEREO AMPLİFİKATÖR







HA1388

18 WATT

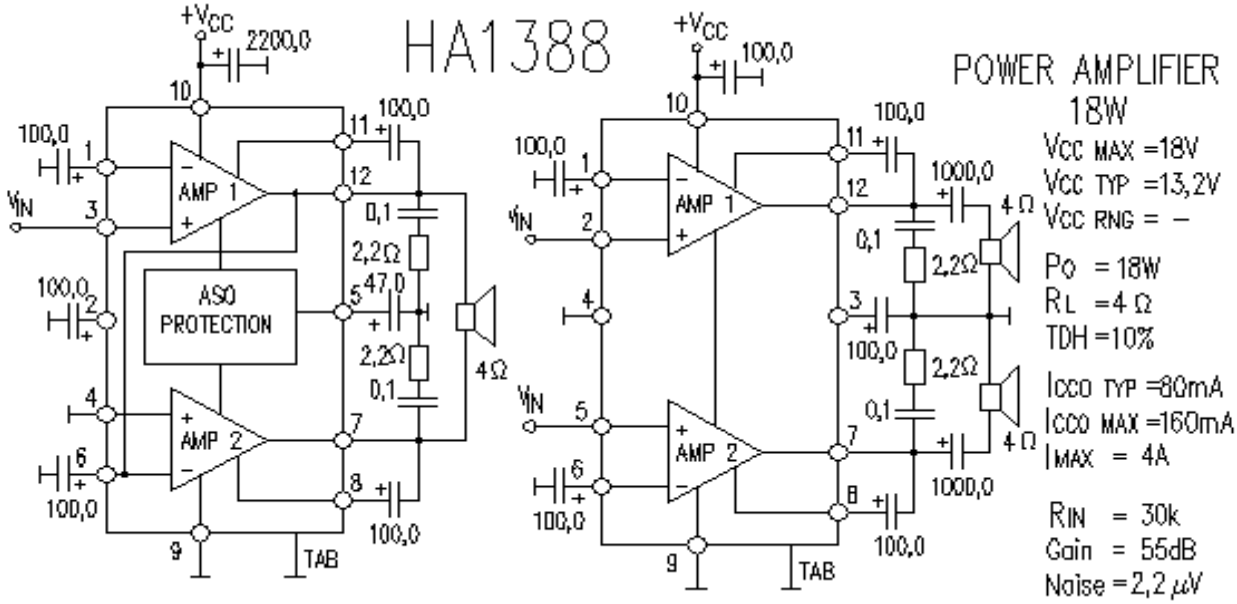
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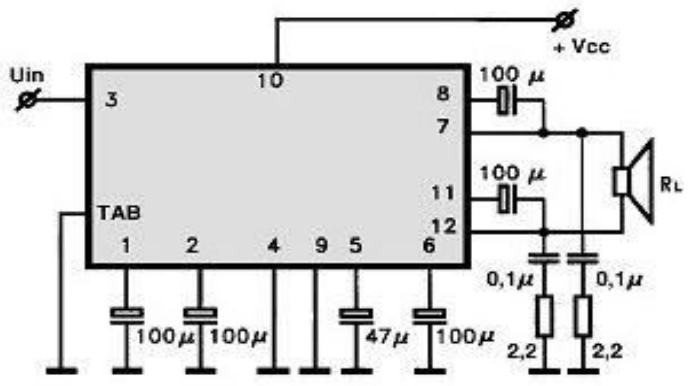


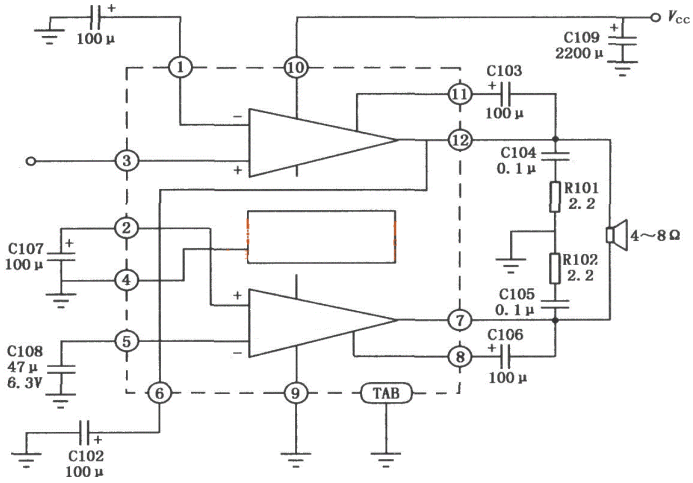
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ÇEŞİTLİ DEVRE ŞEMALARI

18 WATT STEREO AMPLİFİKATÖR







HA12047

PLL FM STEREO MULTİPLEX



İÇ YAPISI

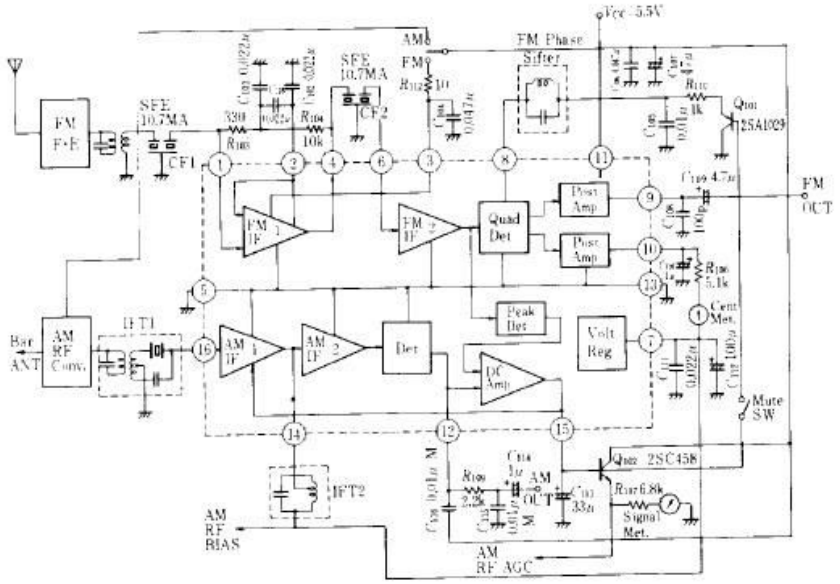
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HA12413

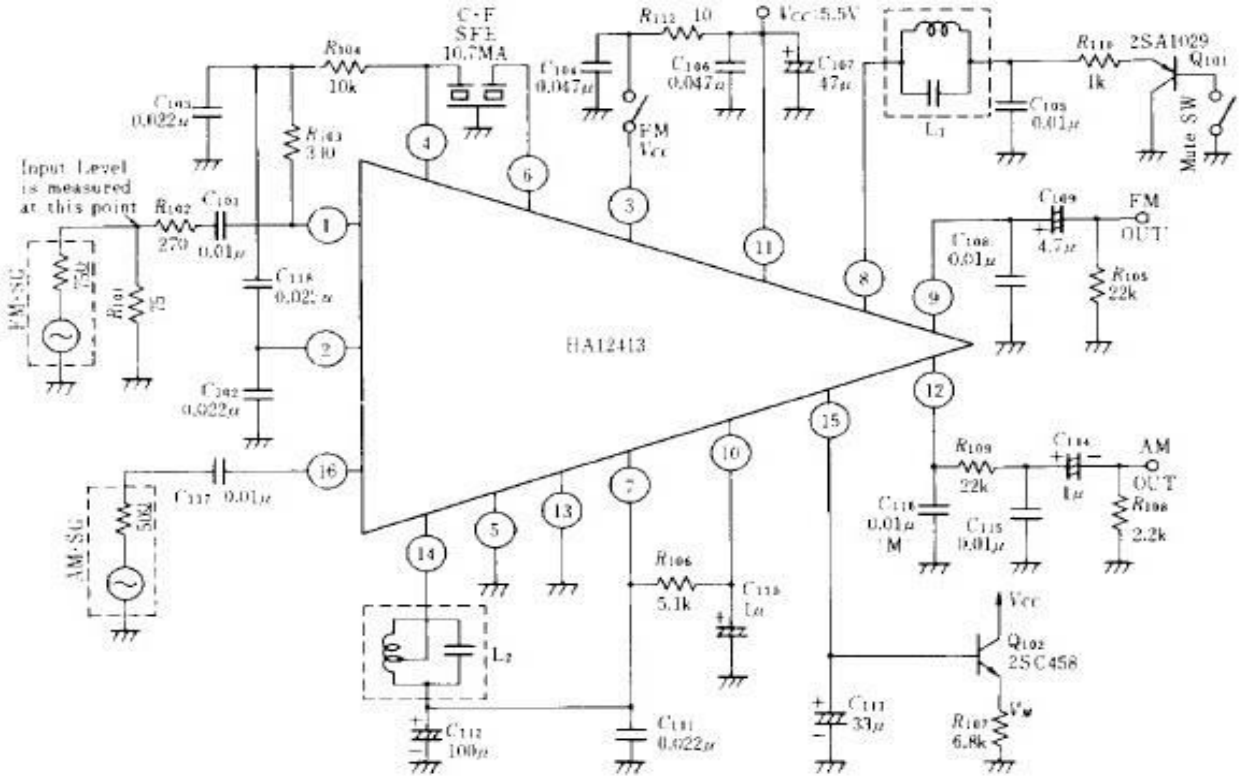
AM / FM
IF (ARA FREKANS) KATI



İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



HA13001

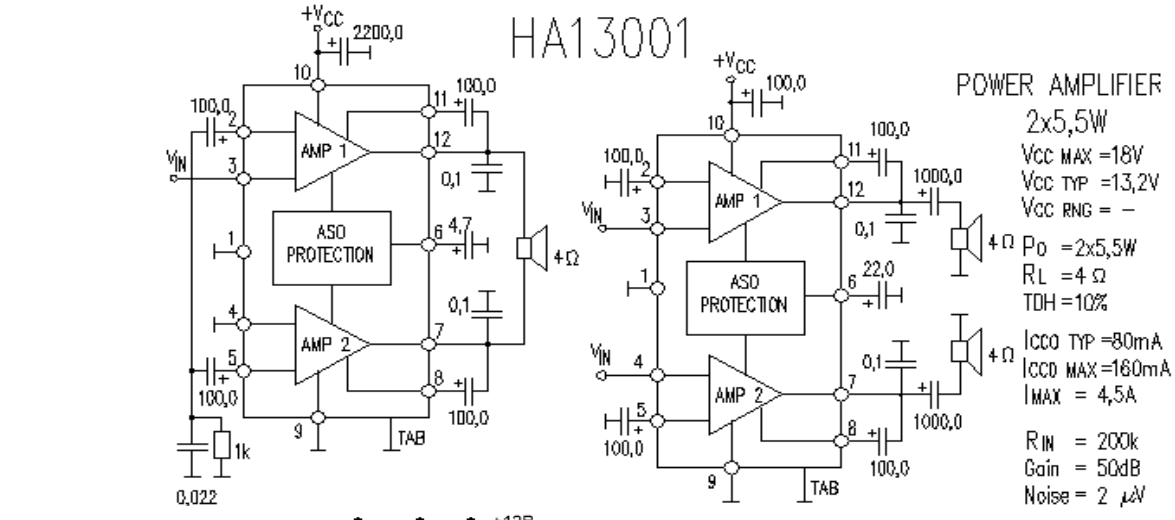
5.5 WATT STEREO

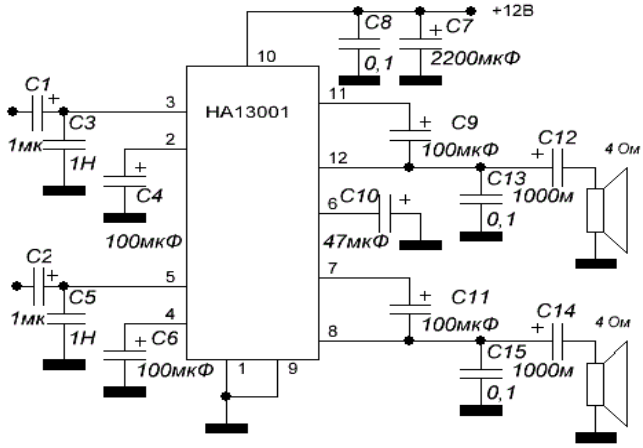
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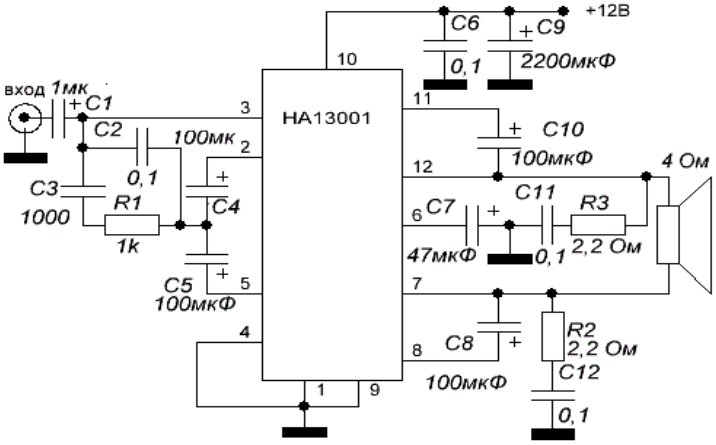


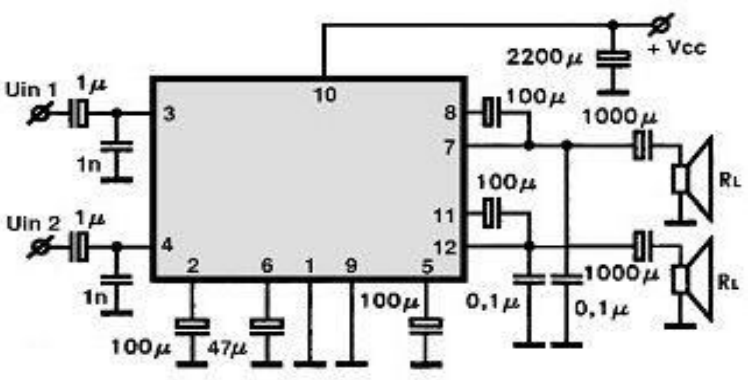
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ÇEŞİTLİ DEVRE ŞEMALARI









HA13118

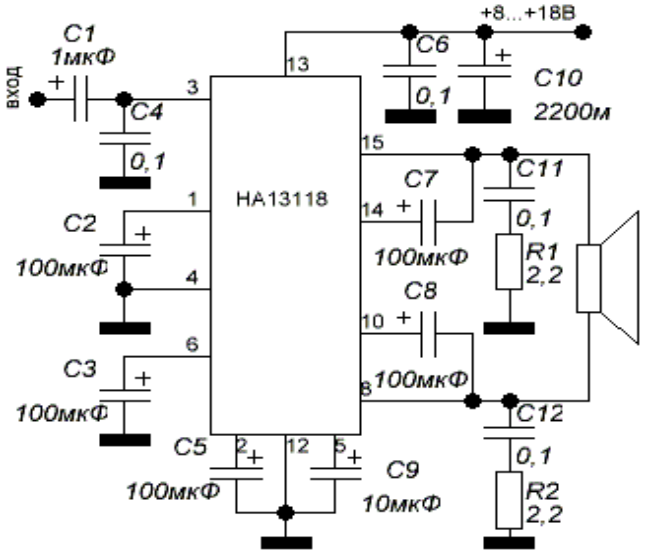
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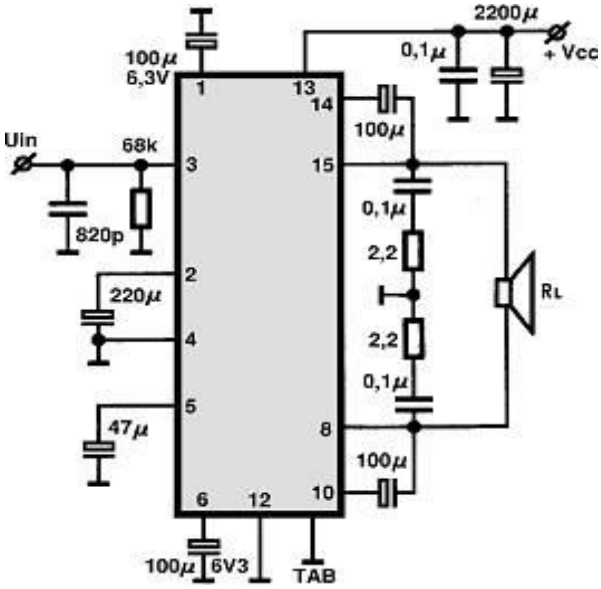


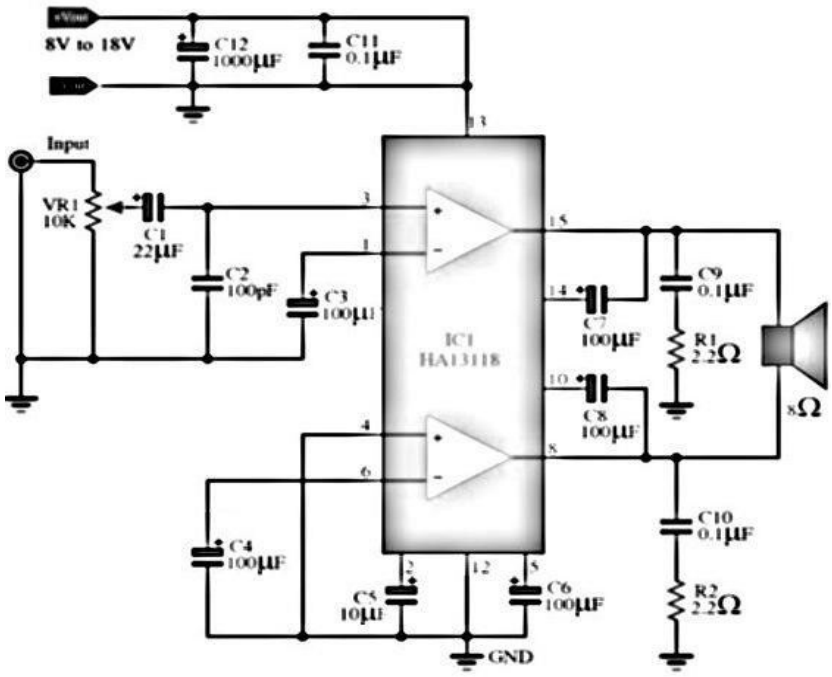
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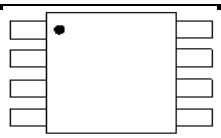
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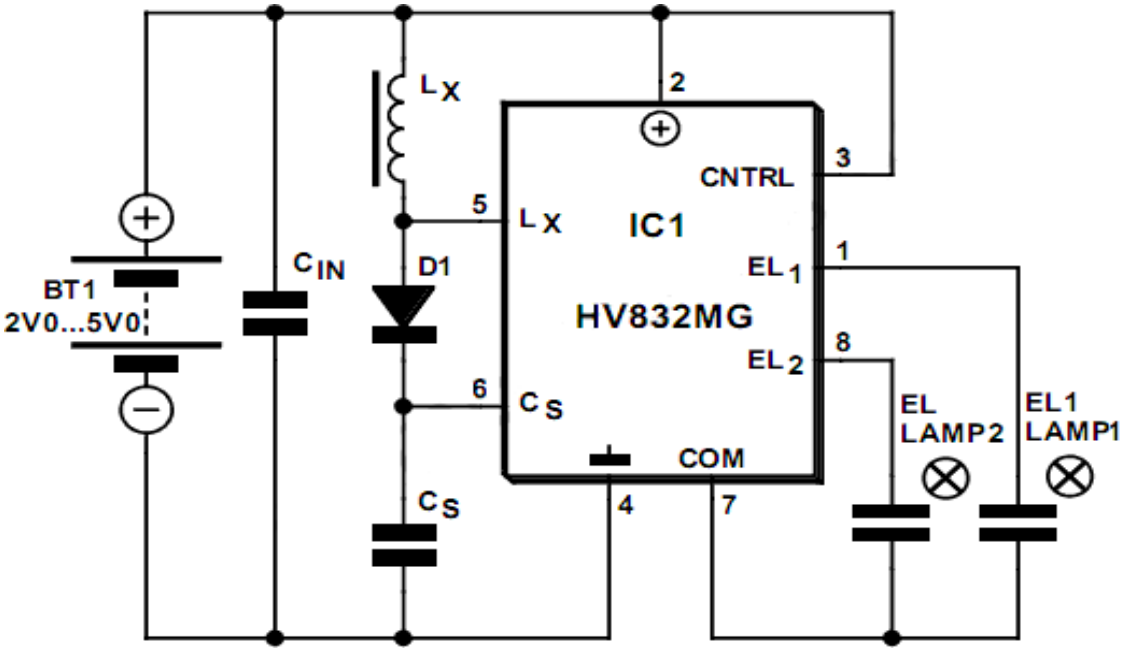
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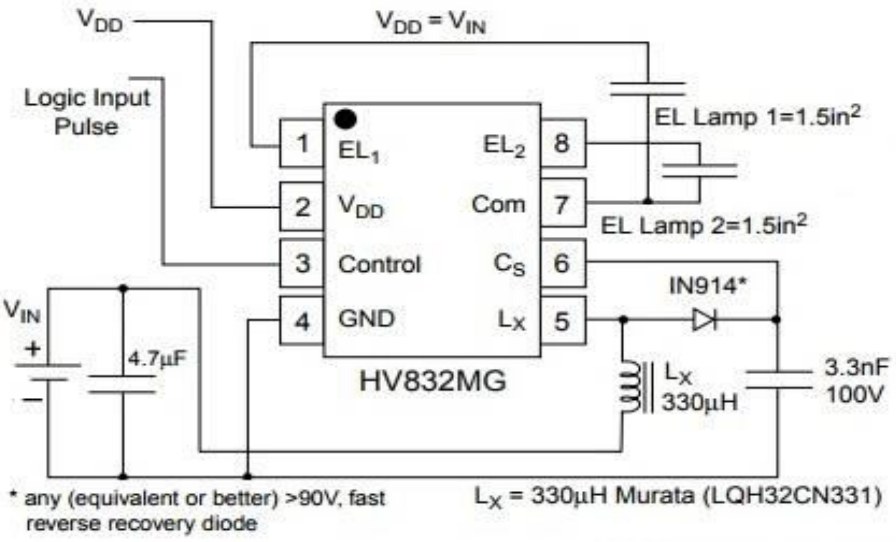
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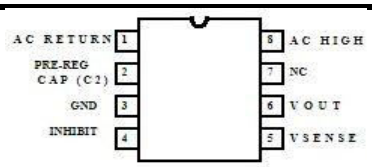
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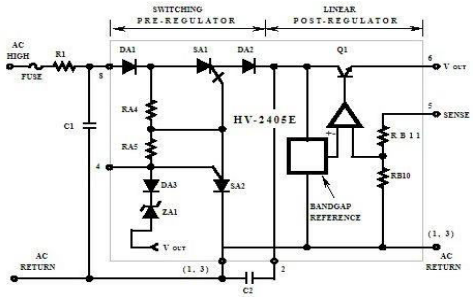


HV-2405E

DÜŞÜK GÜÇLÜ
GÜÇ KAYNAĞI

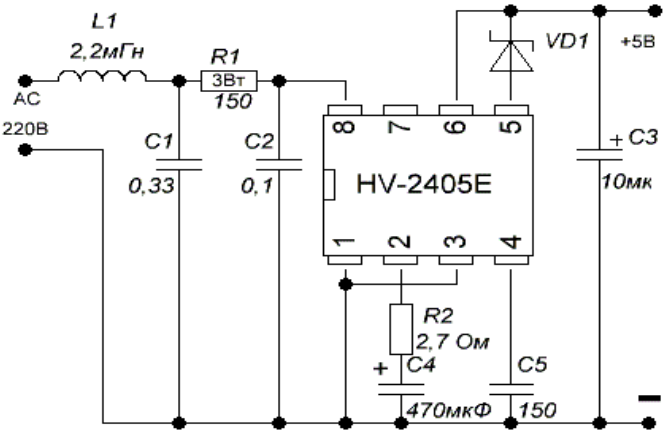


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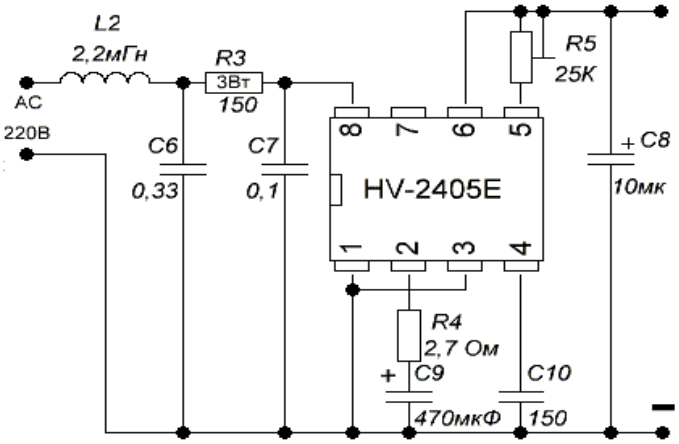


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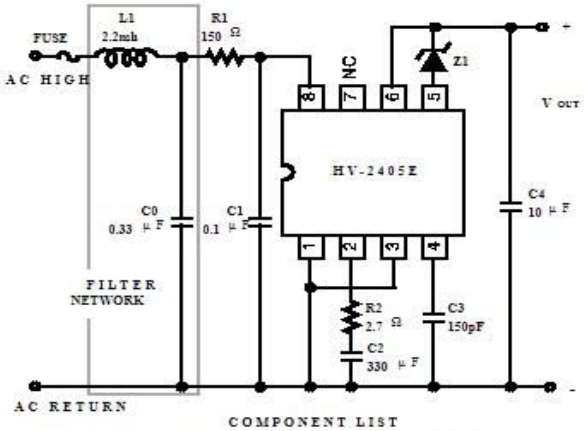
5 VOLT GÜÇ KAYNAĞI



24 VOLT GÜÇ KAYNAĞI

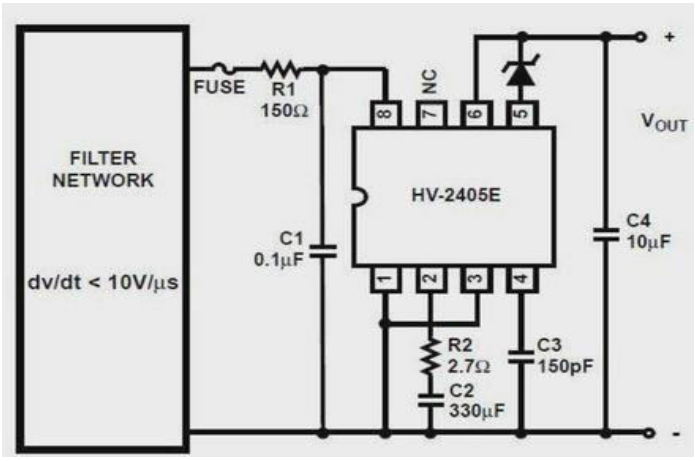


GENEL KULLANIM



COMPONENT LIST

FUSE = 1/ 4A
R1 = 150Ω, 3W
R2 = 2.7Ω, 1/4W
C1 = 0.1μF, AC RATED
C2 = 330μF, 15V + V_{OUT}, ELECTROLYTIC
C3 = 150pF, CERAMIC
C4 = 10μF, V_{OUT} +10V, ELECTROLYTIC
Z1 = V_{OUT}-5V, 1/4W
L1 = 2.2mh, μ = 2000
C0 = 0.33μF, AC RATED

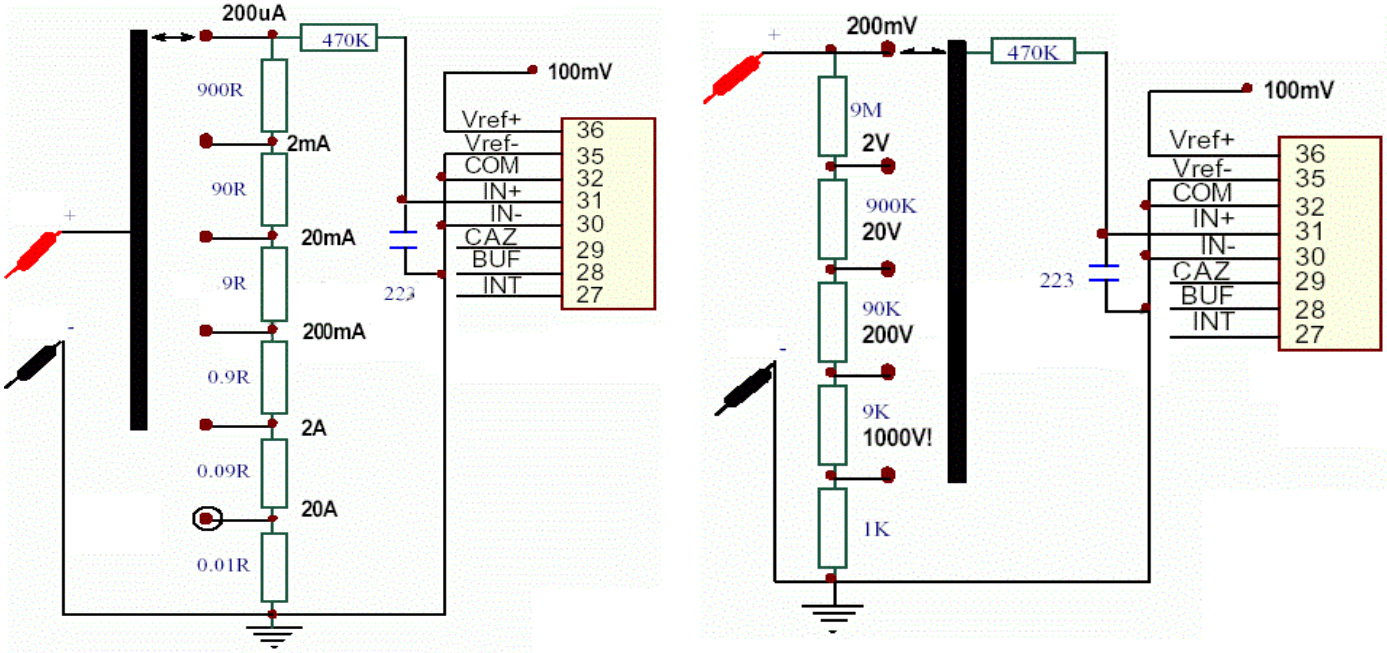


ICL7106

4 RAKAMLI LED EKRAN SÜRÜCÜSÜ

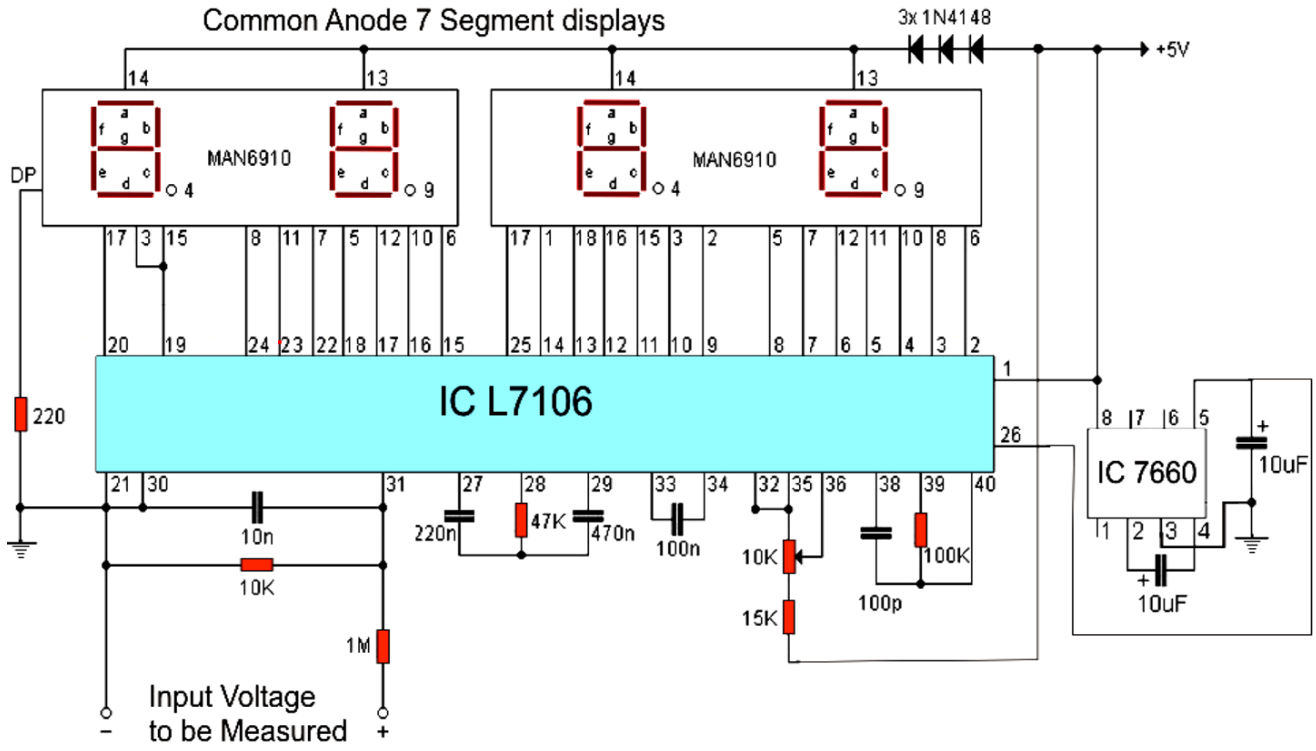


AKIM VE VOLTAJ ÖLÇME

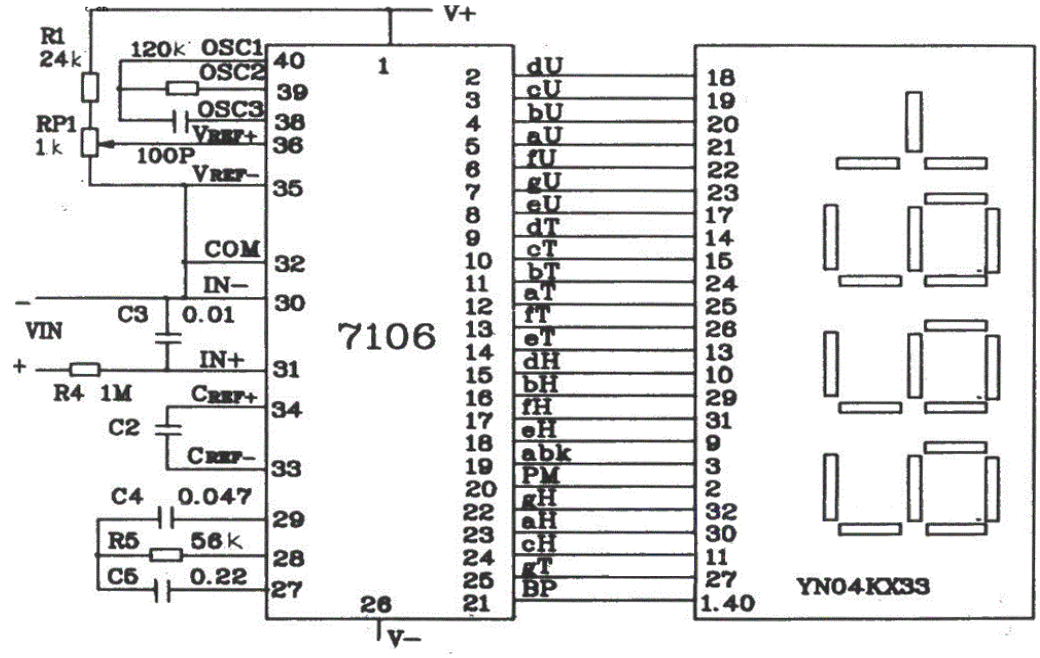


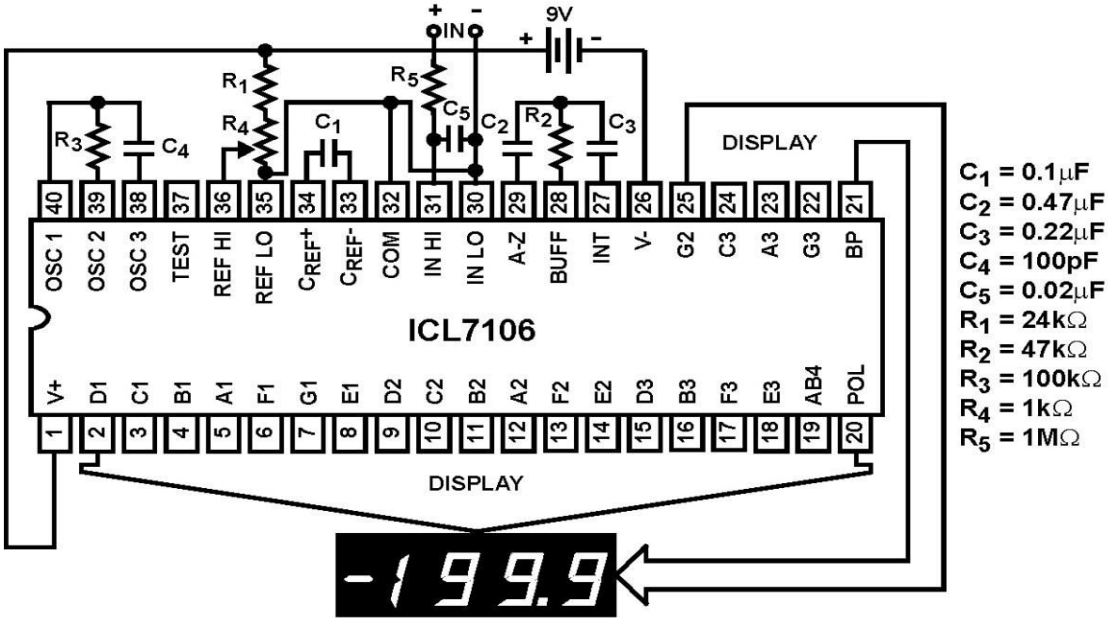
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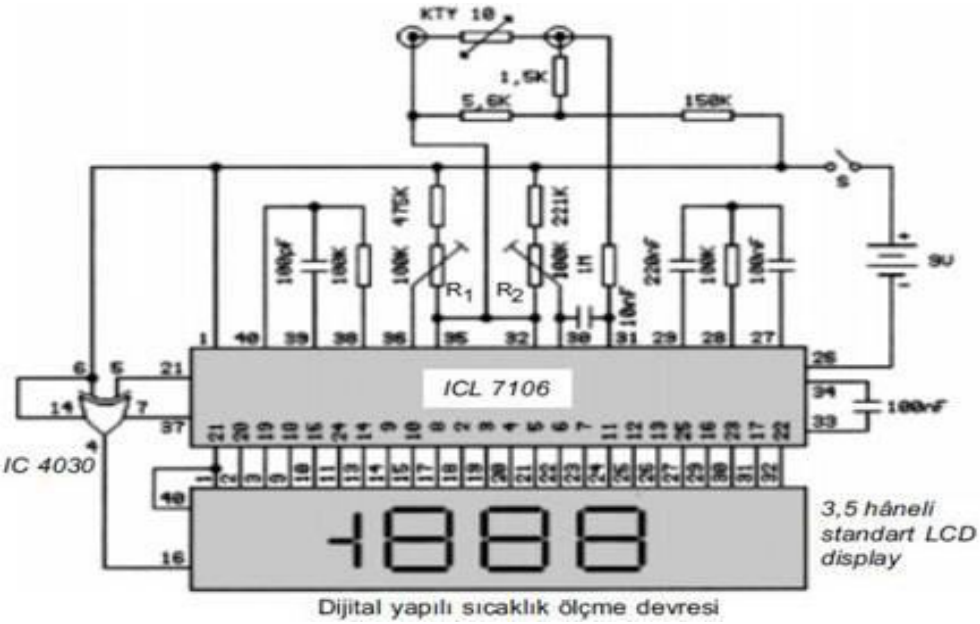
VOLTMETRE



VOLTMETRE







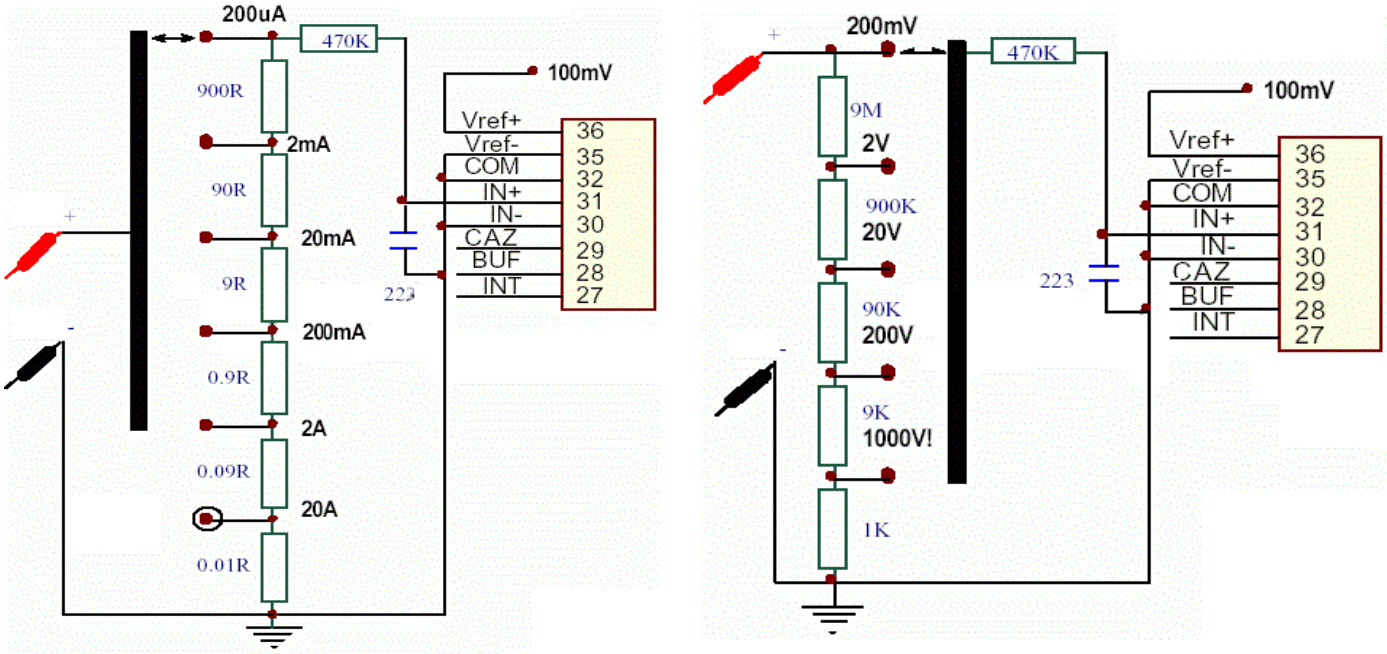
Dijital yapılı sıcaklık ölçme devresi

ICL7107

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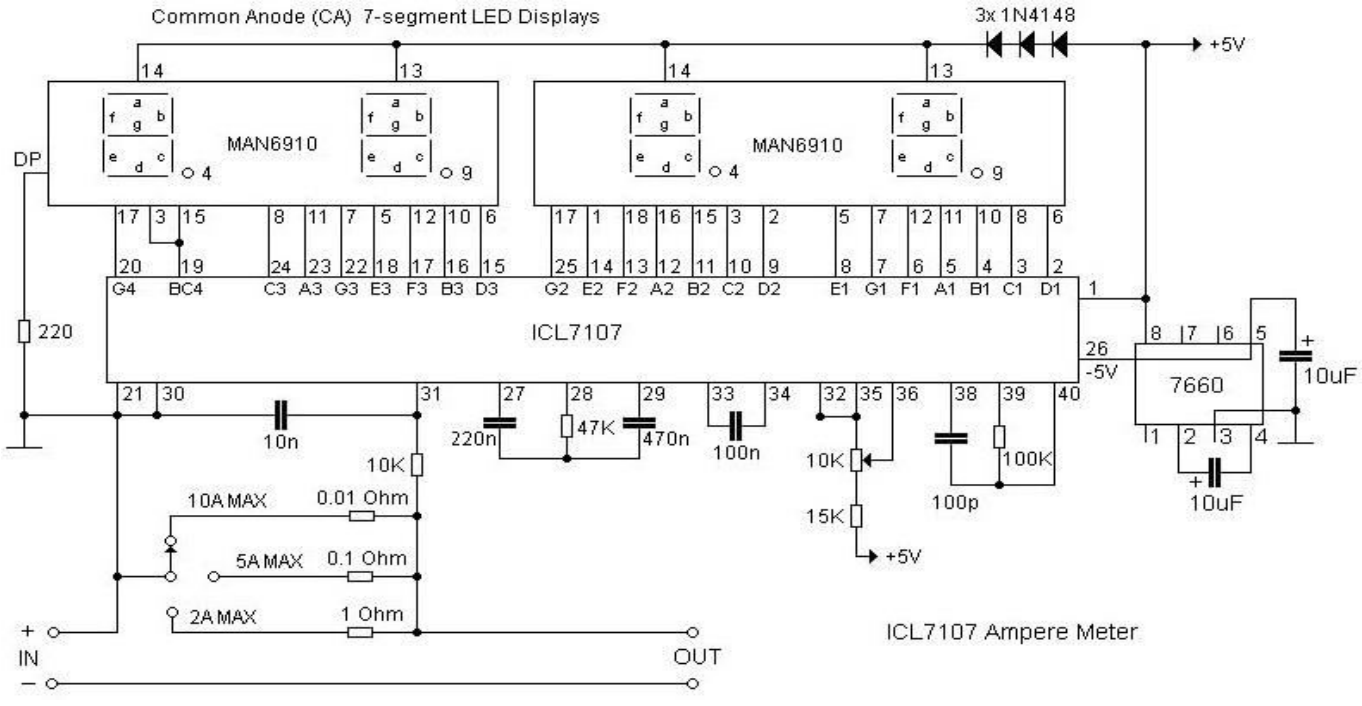


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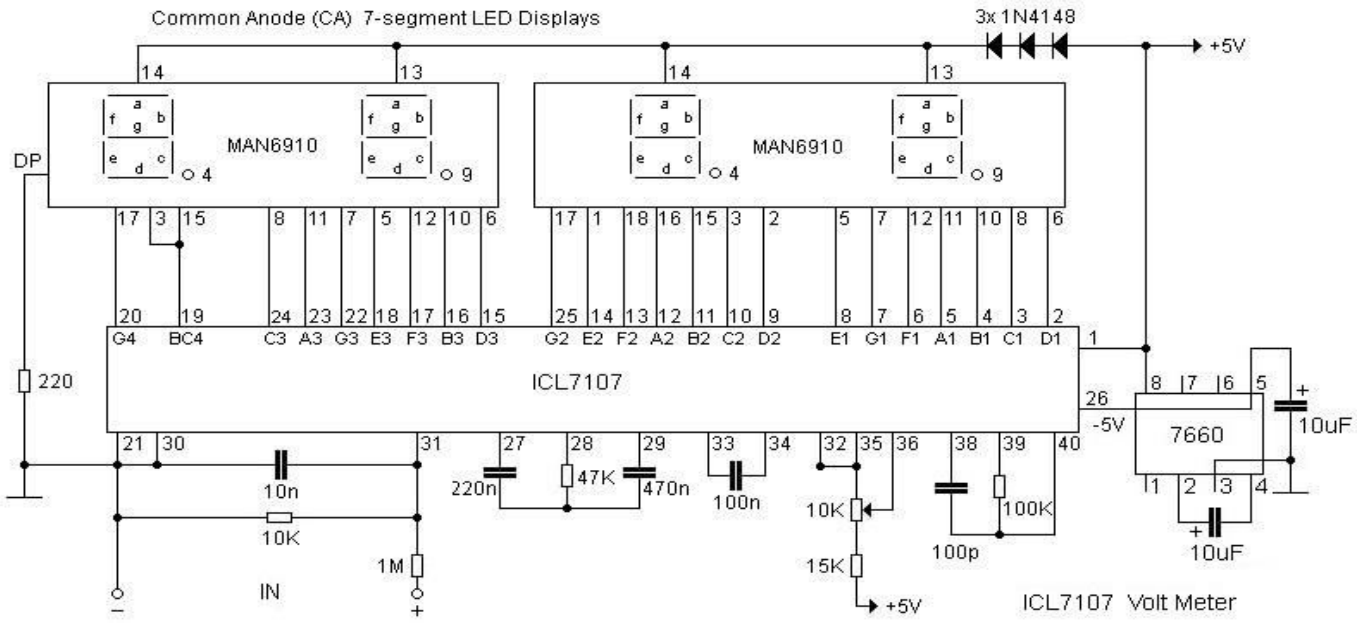


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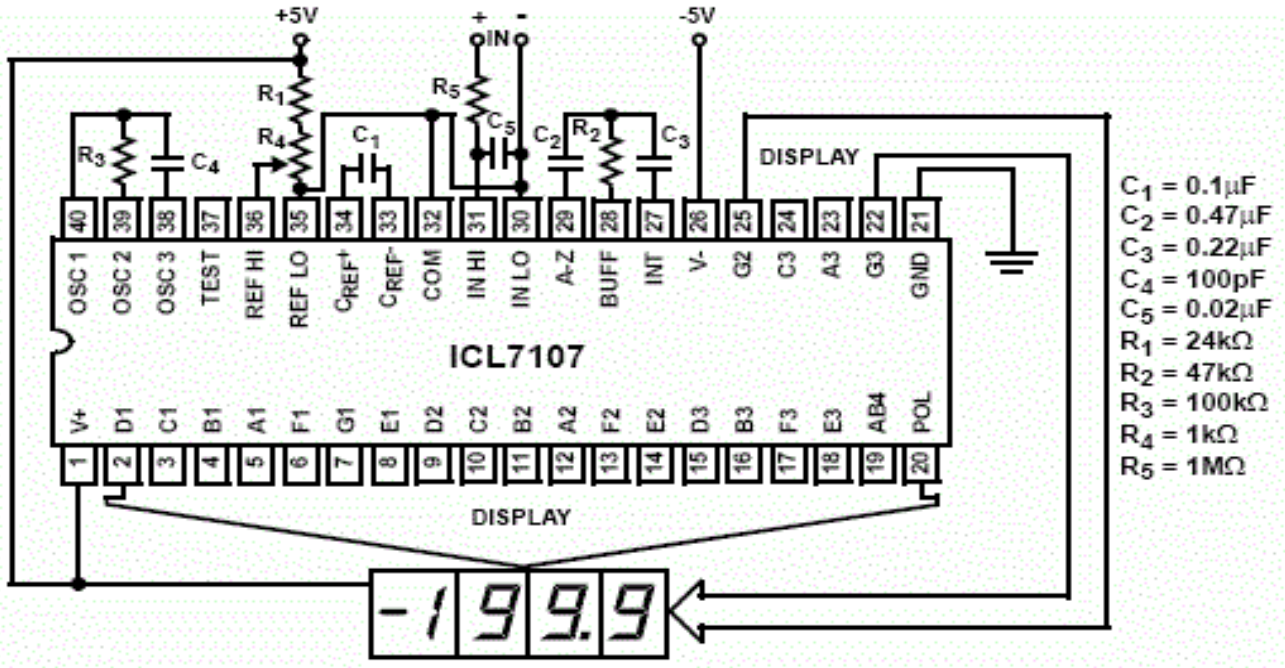
AMPERMETRE



VOLTMETRE

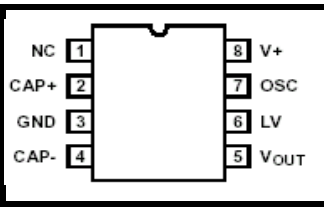


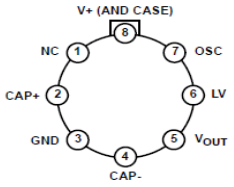
VOLTMETRE



ICL7660 / ICL7660A

CMOS VOLTAJ KONVERTÖR

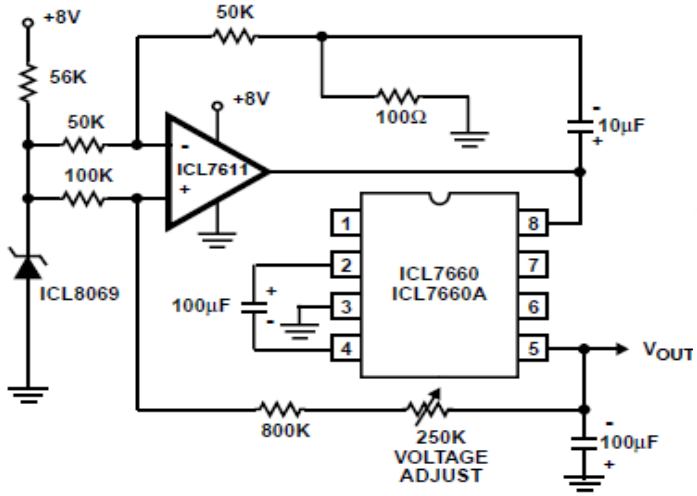


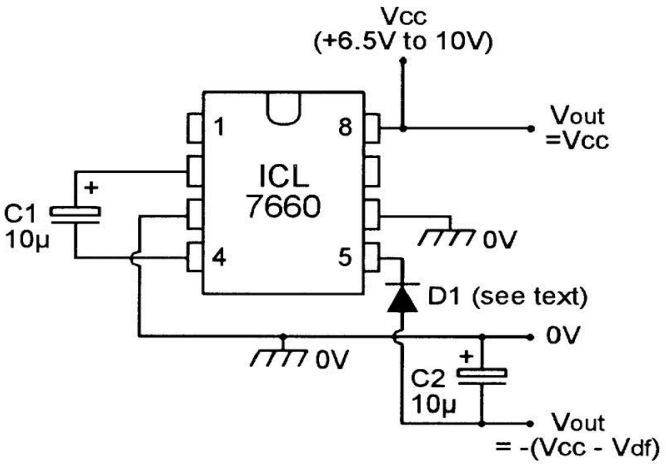


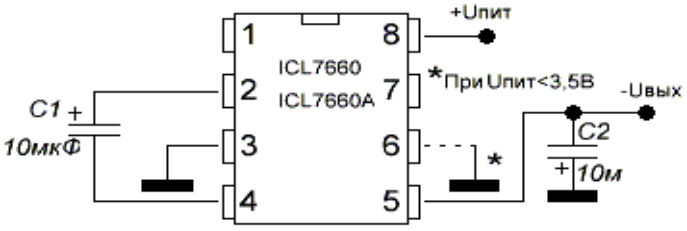
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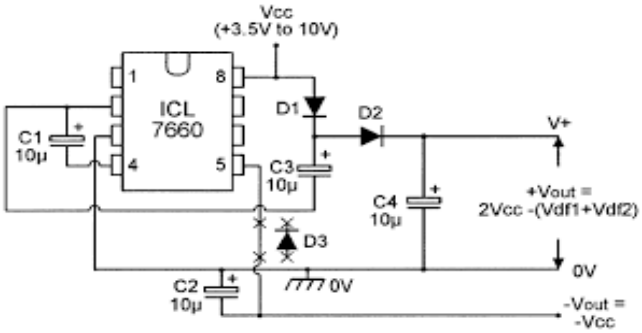
ICL7660	1,5 VOLT - 10 VOLT
ICL7660A	1,5 VOLT - 12 VOLT

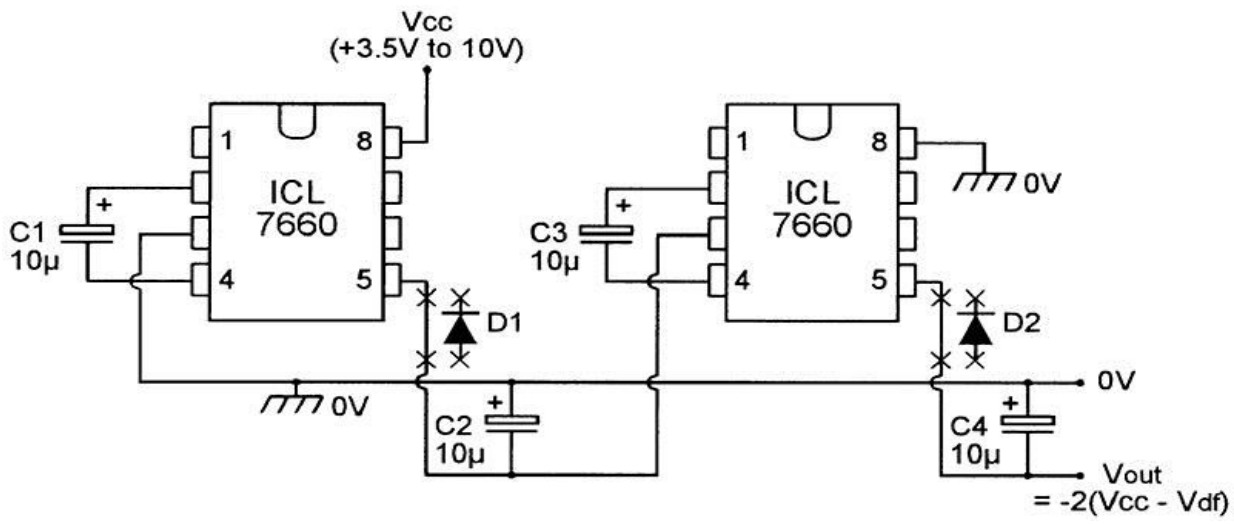
ÇEŞİTLİ DEVRE ŞEMALARI





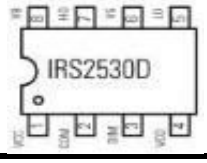






IRS2530D

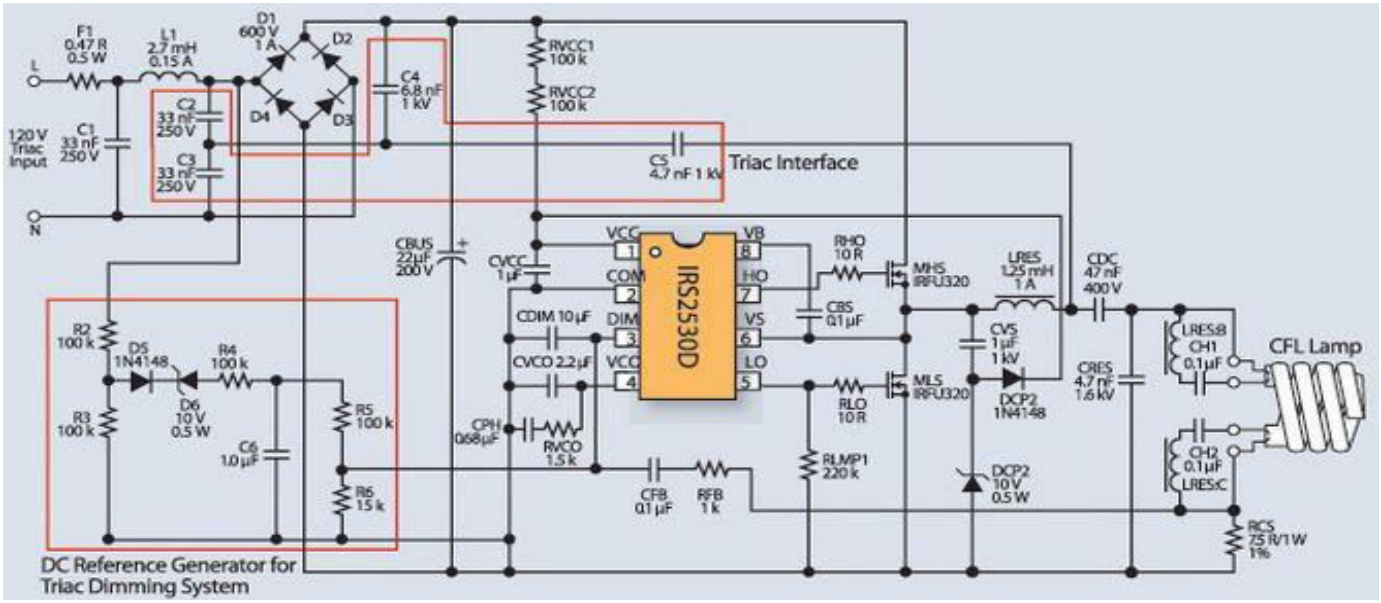
DİMMER



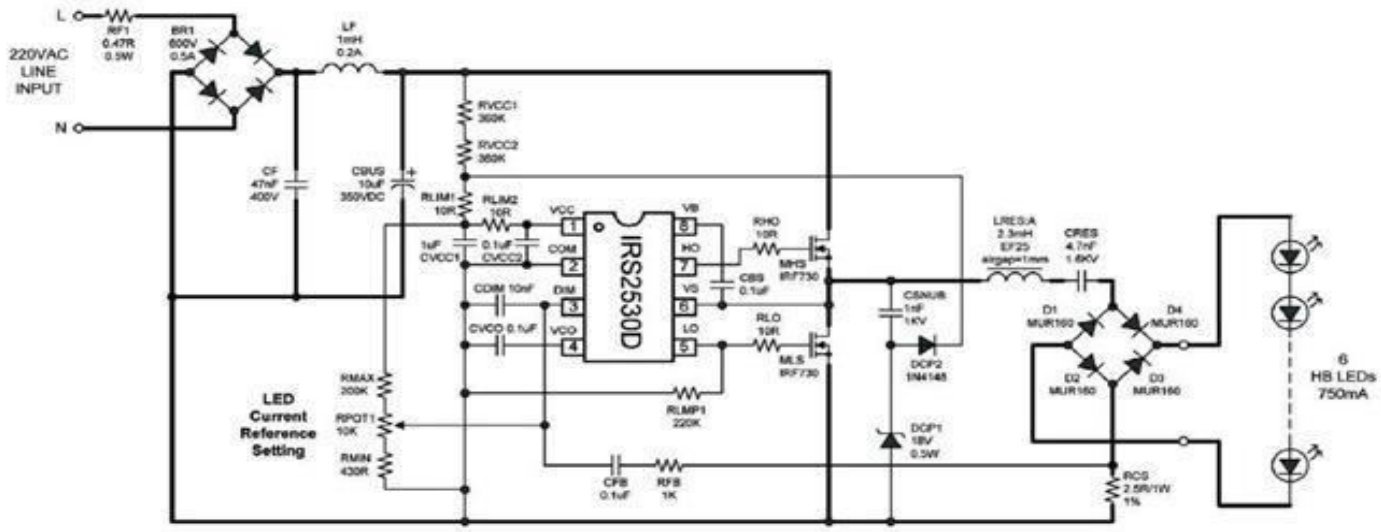
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ÇEŞİTLİ DEVRE ŞEMALARI

15 WATT DİMMER



LED KONTROL



ISD1012 / 1016 / 1020

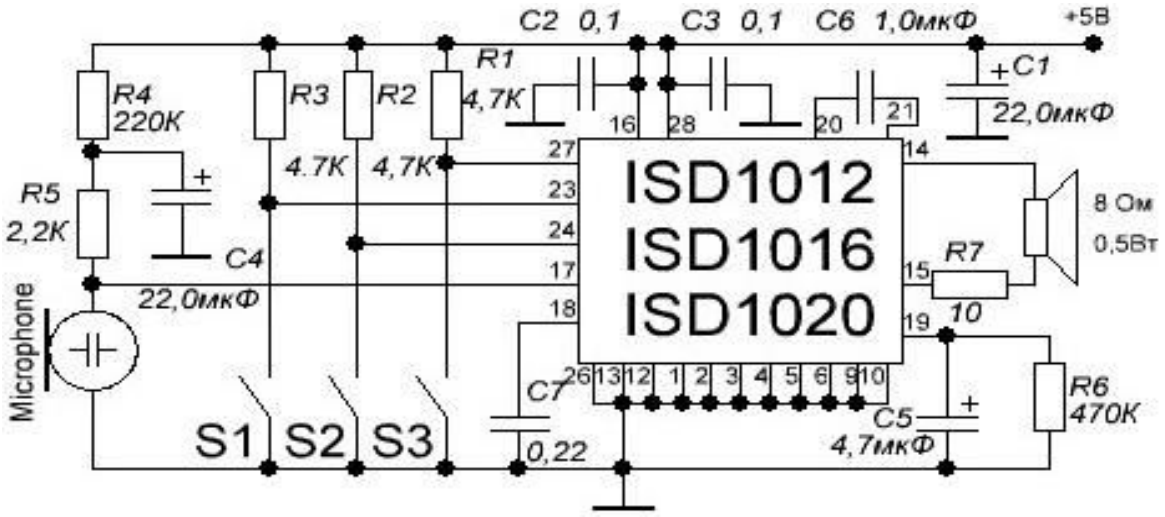
SES KAYIT DEVRESİ

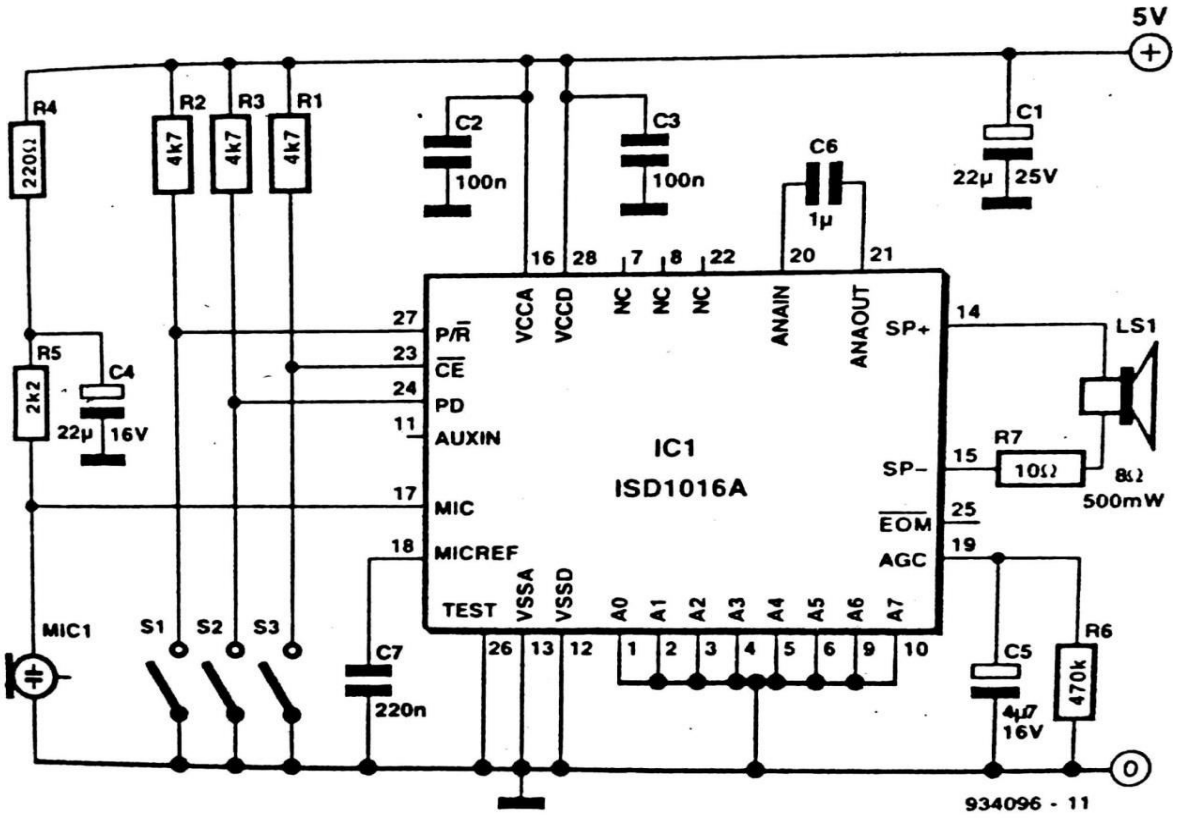


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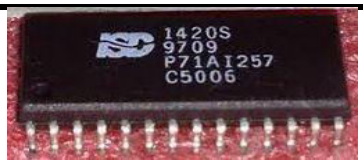
SES KAYIT DEVRESİ





ISD1420

SES KAYIT DEVRESİ



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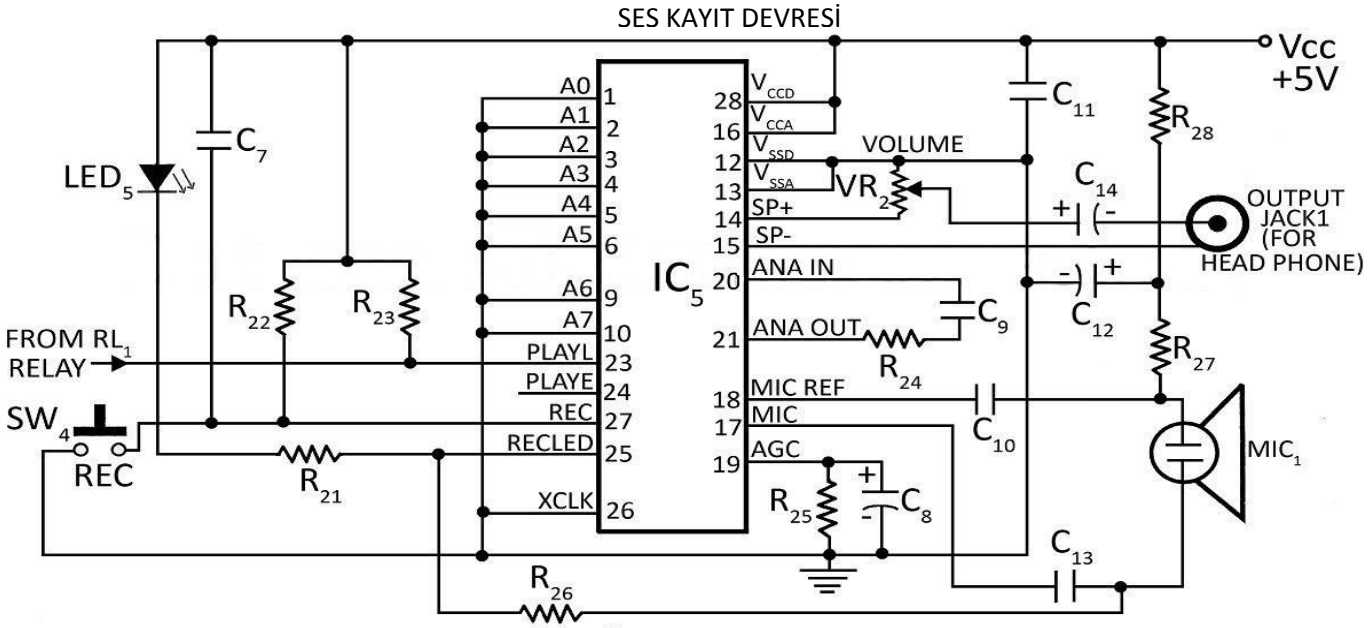
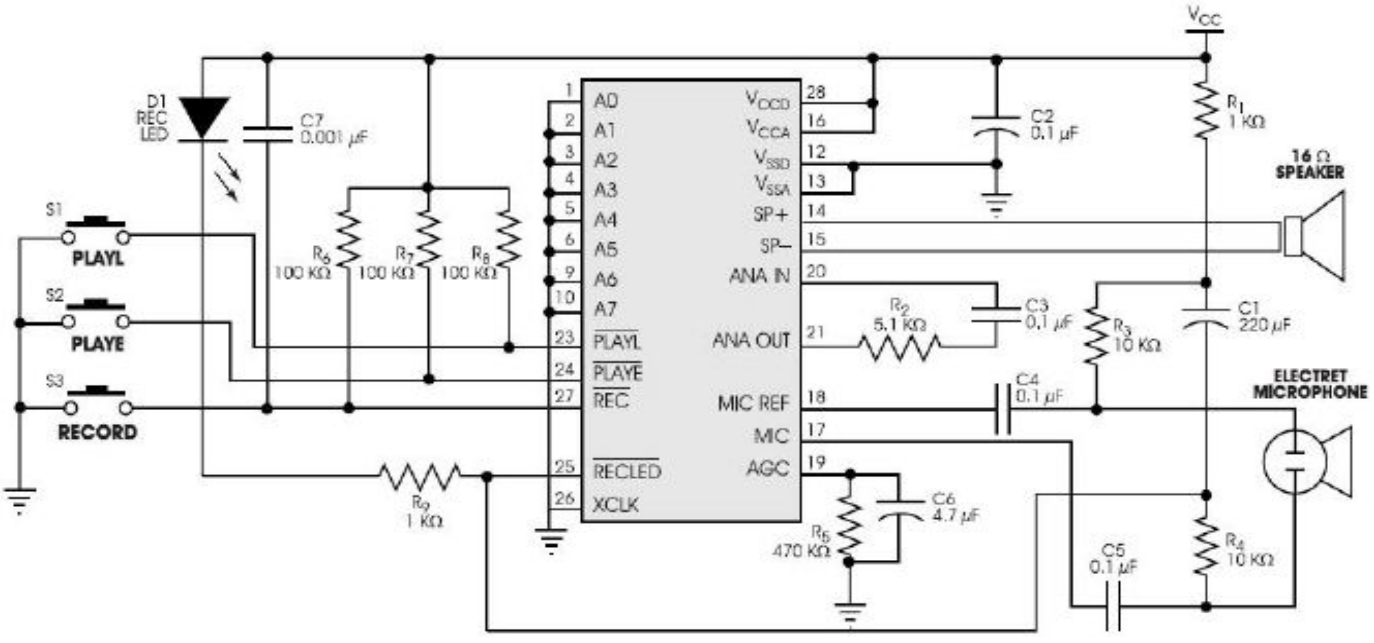
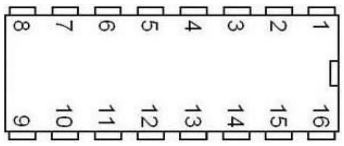


Figure 5: Single-chip Record/Playback Circuit Using ISD1420 Chip



K174XA10

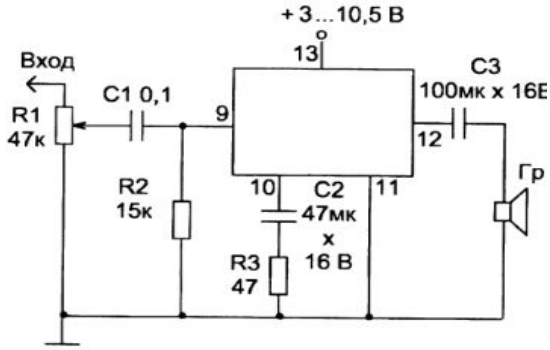
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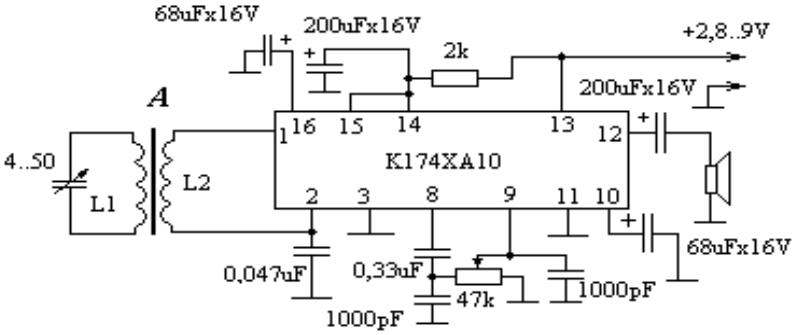
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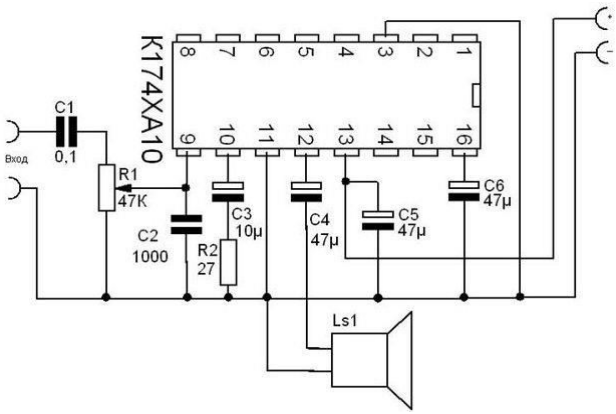
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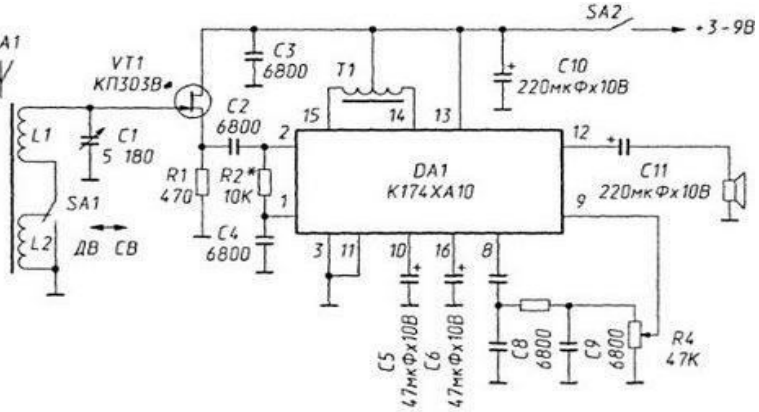
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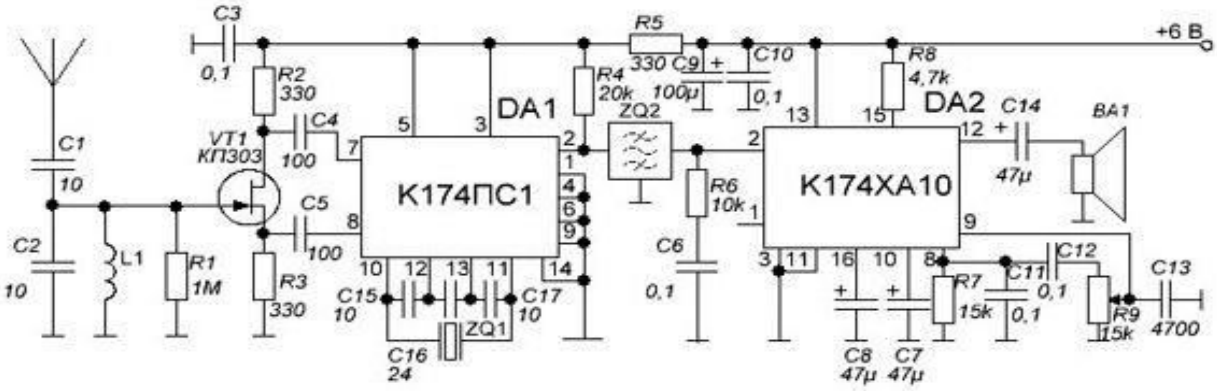
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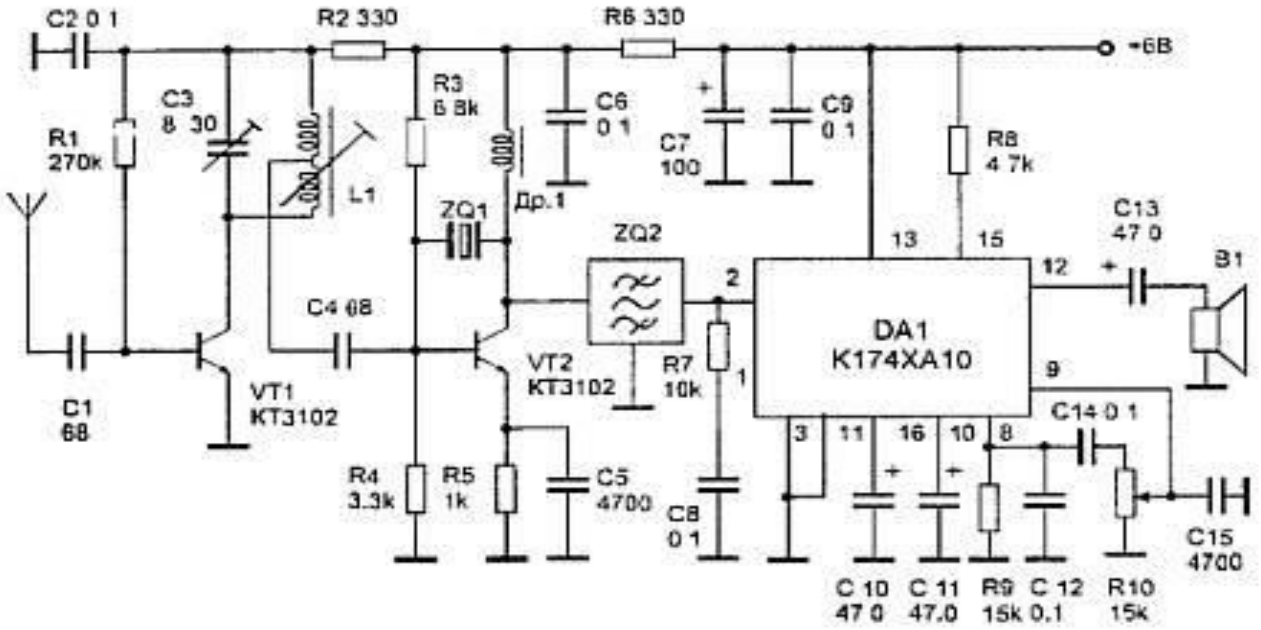
AM ALICI



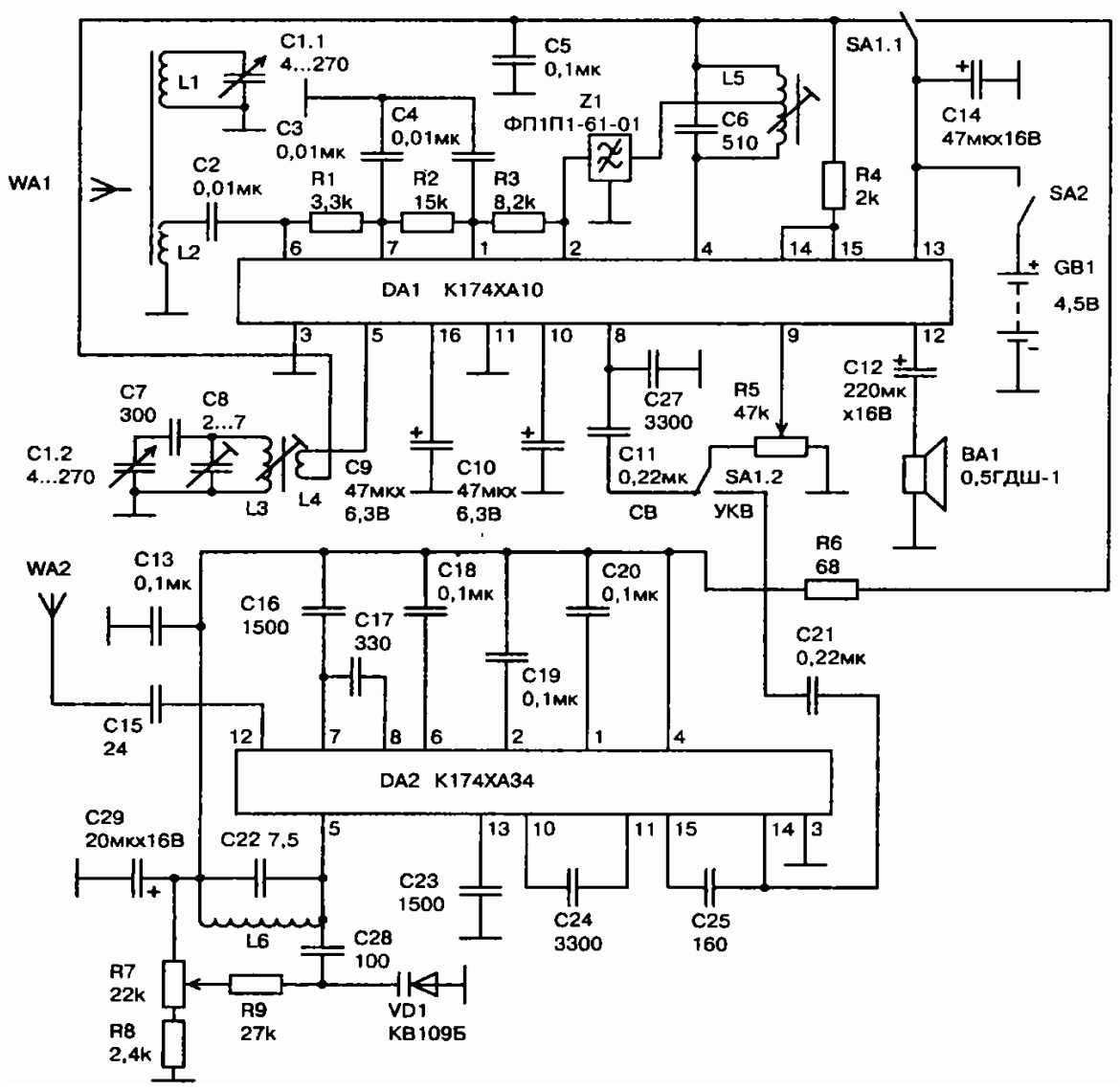
27 MHZ CB ALICI



27 MHZ CB ALICI



27 MHZ CB ALICI



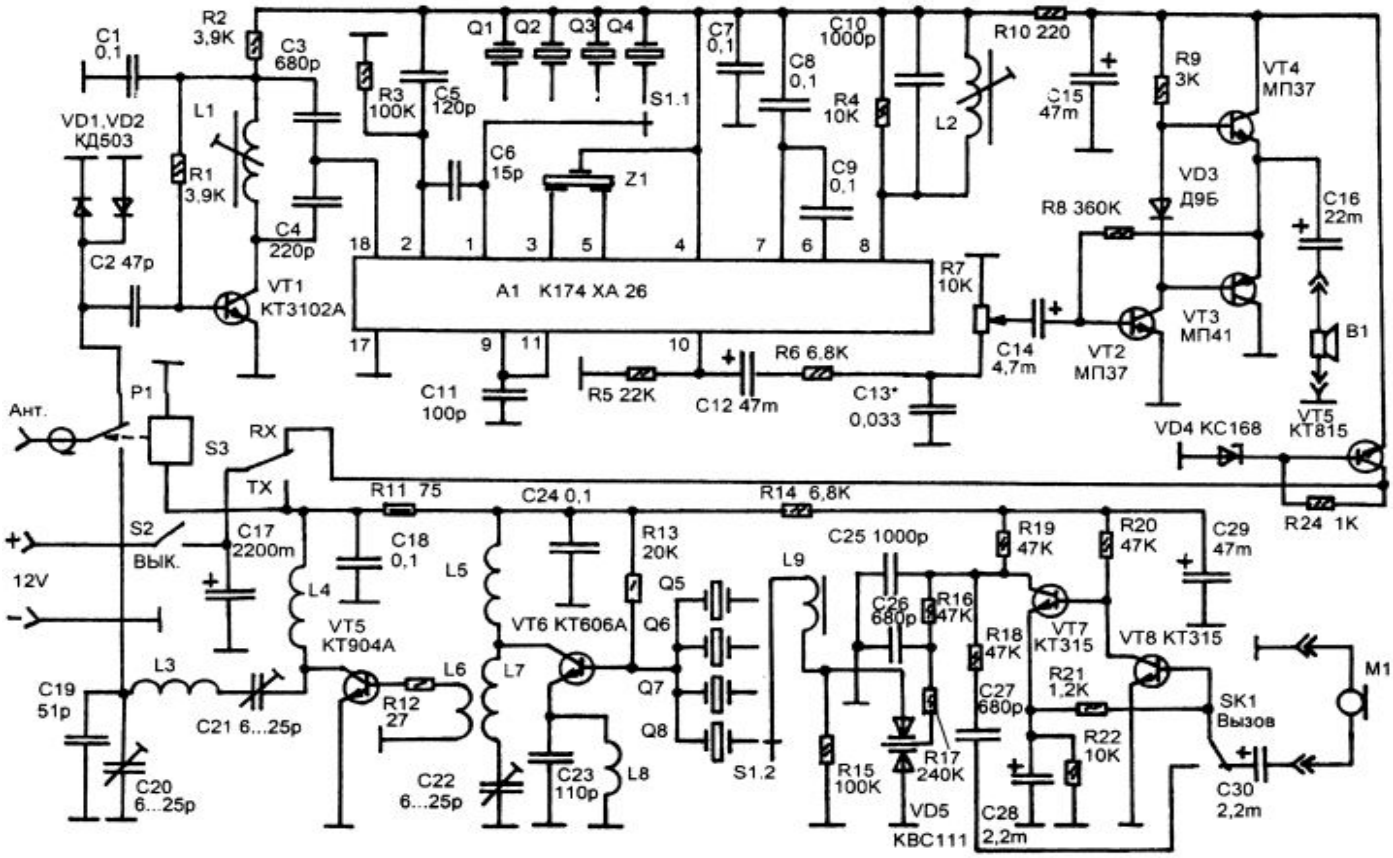
K174XA26

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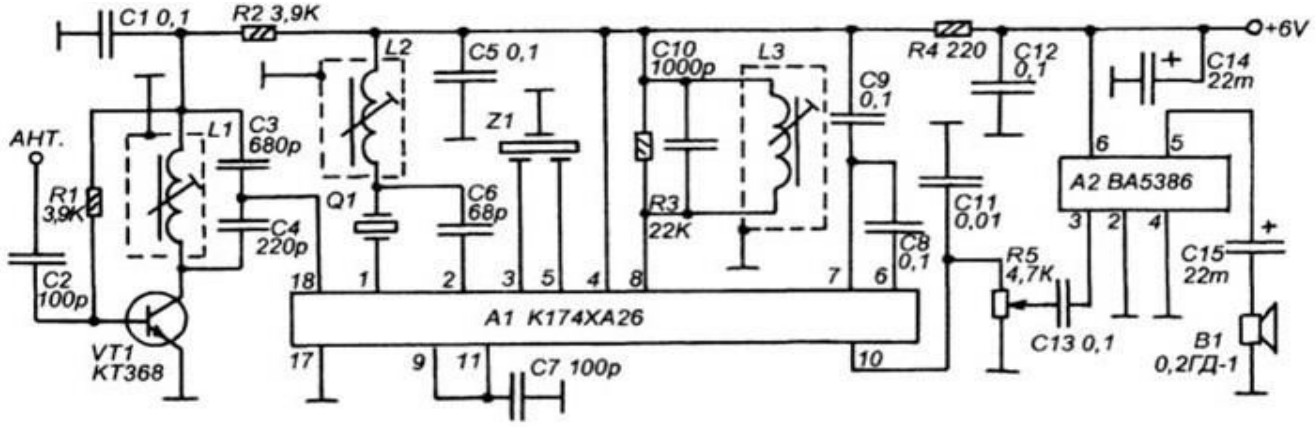
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27 MHZ ALICI VERİCİ



27 MHZ ALICI



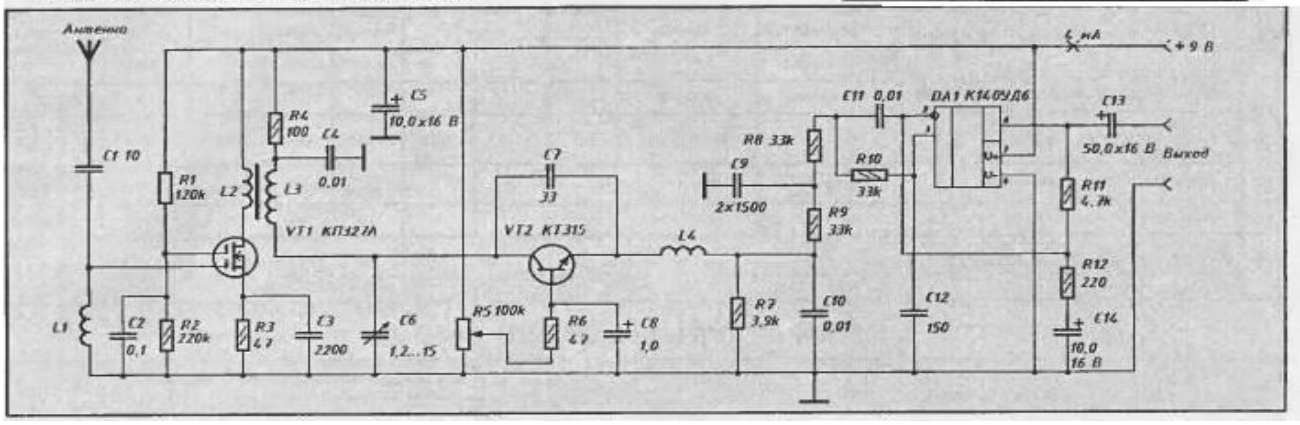
27 MHZ ALICI

Катушка индуктивности L1 намотана проводом ПЭВ-2 диаметром 0,4 мм на каркасе диаметром 8 мм и содержит 20 витков.

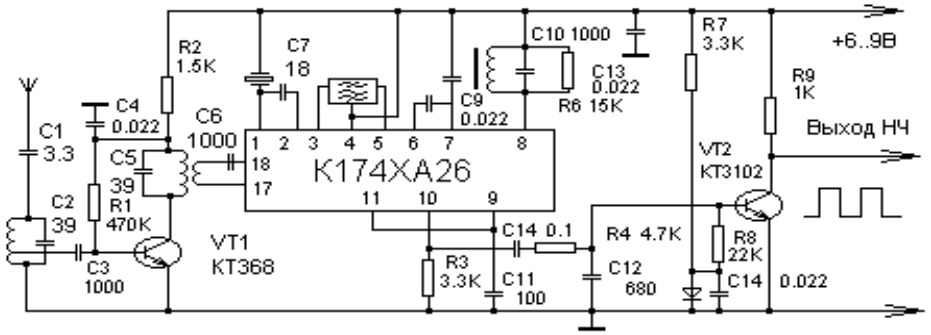
Катушка L2 содержит 2 витка провода диаметром 0,1 мм, намотанным поверх катушки L3.

Катушка L3 содержит 15 витков провода диаметром 0,1 мм на каркасе диметром 8 мм.

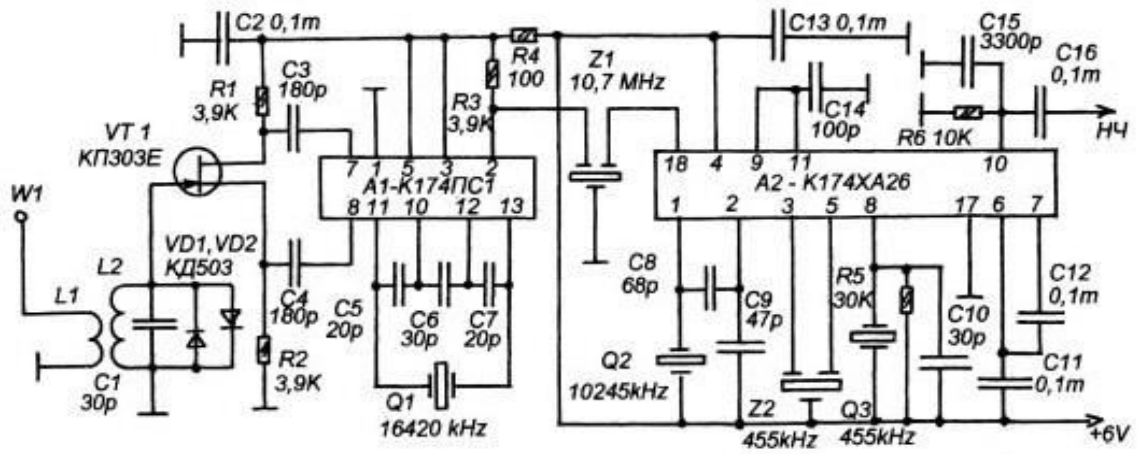
Катушка L4 содержит 45...60 витков провода ПЭВ-2 диаметром 0,5 мм на каркасе диаметром 10 мм.



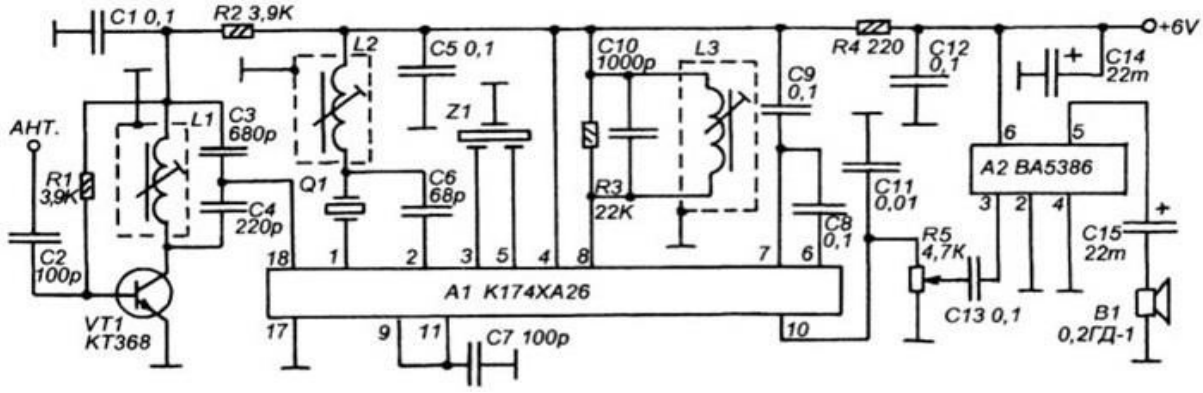
27 MHZ ALICI



FM ALICI



FM ALICI



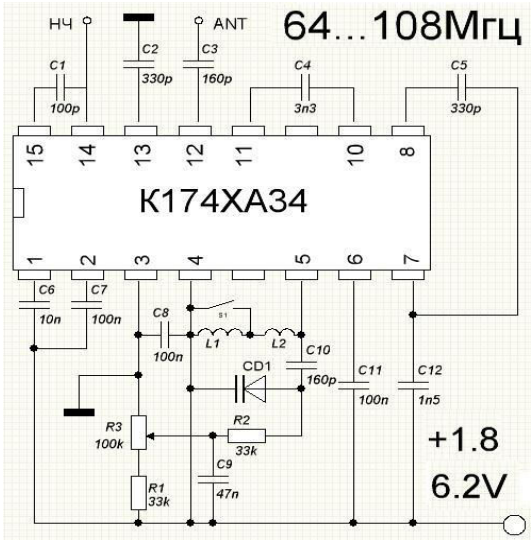
K174XA34

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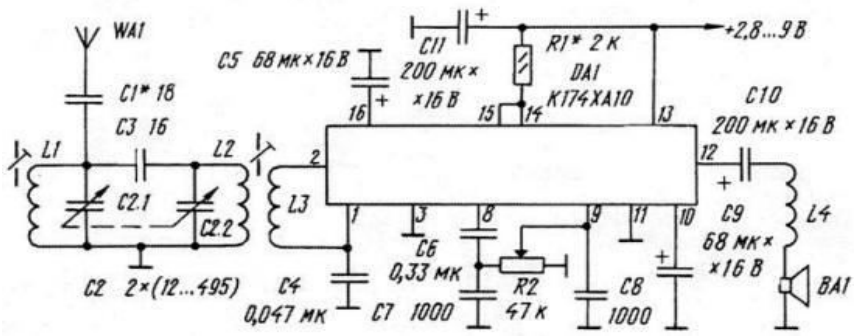
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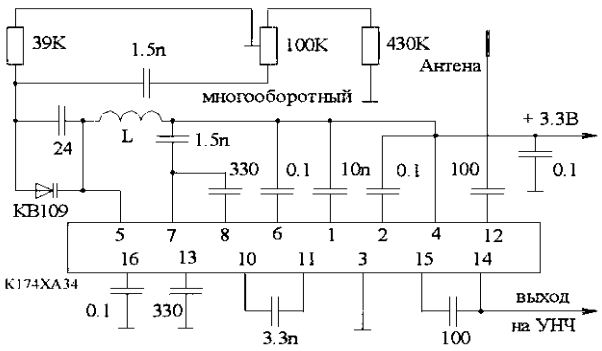
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FM RADYO

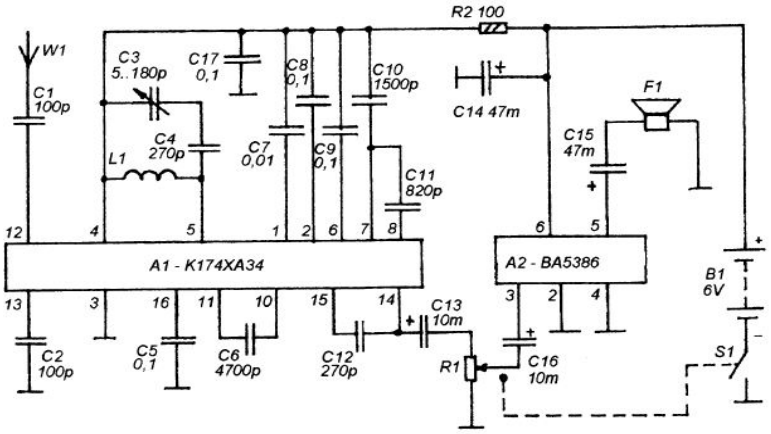


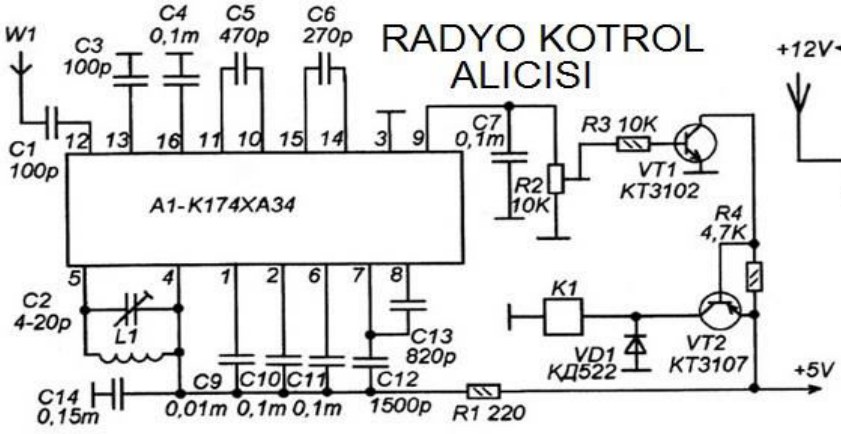
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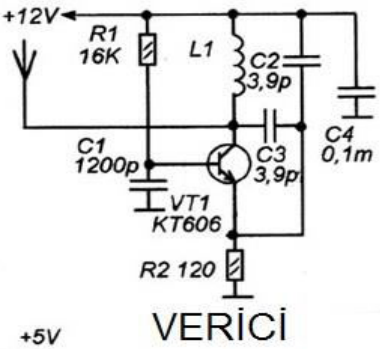




FM RADYO





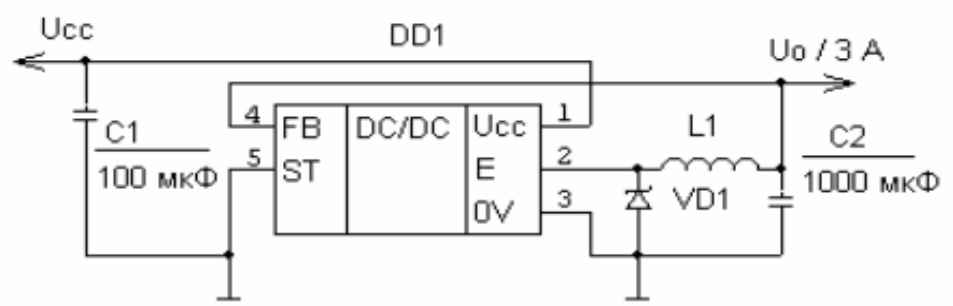


K1290EKxx

GERİLİM REGÜLATÖRÜ	

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DD1	U_{CC}, В	U_O, В	L1, мкГн	VD1
K1290EK3.3xx	12	3,3	68	MBR330
K1290EK5xx	12	5	68	MBR330
K1290EK12xx	24	12	150	MBR360
K1290EK15xx	30	15	220	MBR360

$U_O = U_{REF}(1 + \frac{R2}{R1})$, где U_{REF} = 1,23 В, R1=1кОм..5кОм.

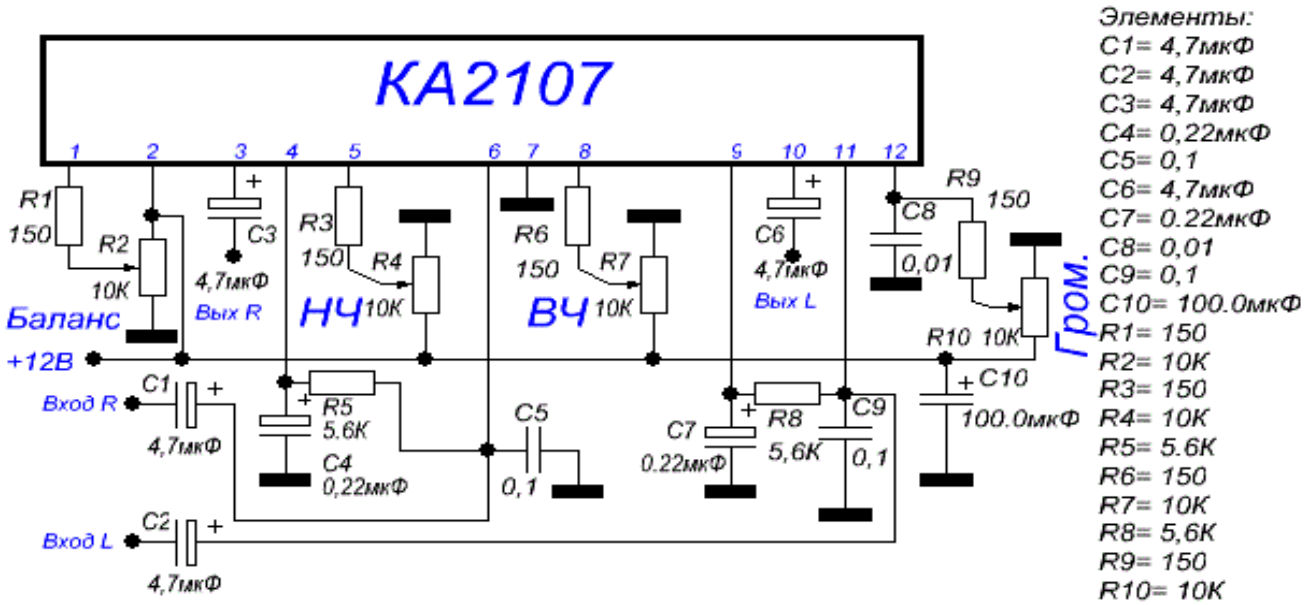
KA2107

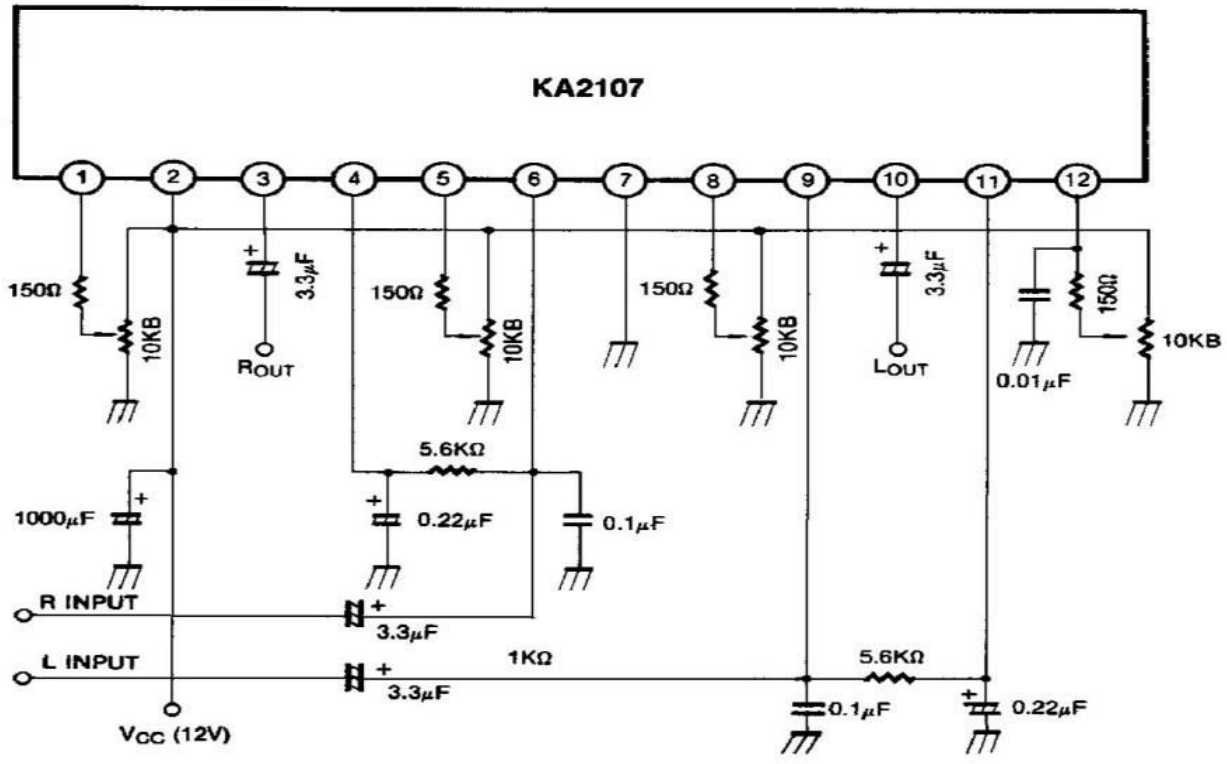
TON KONTROL DEVRESİ



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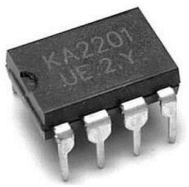




KA2201

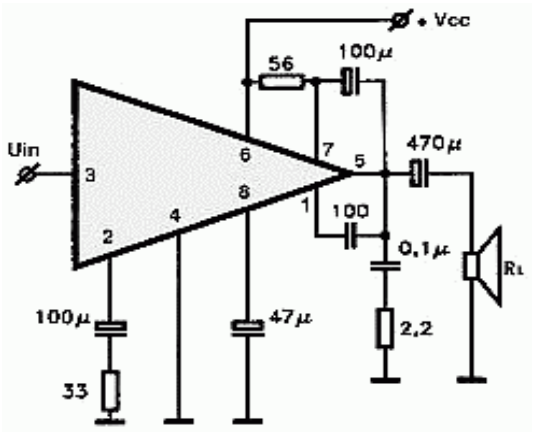
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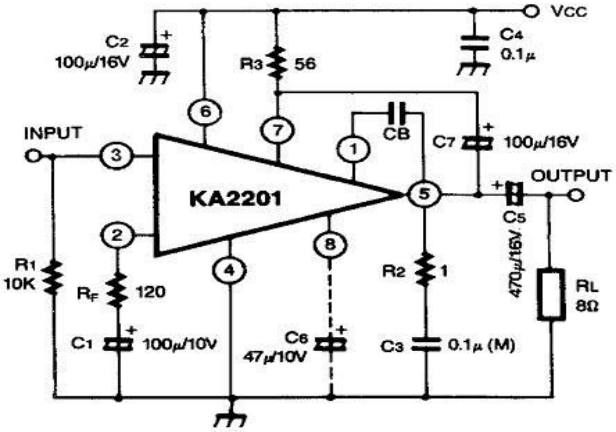
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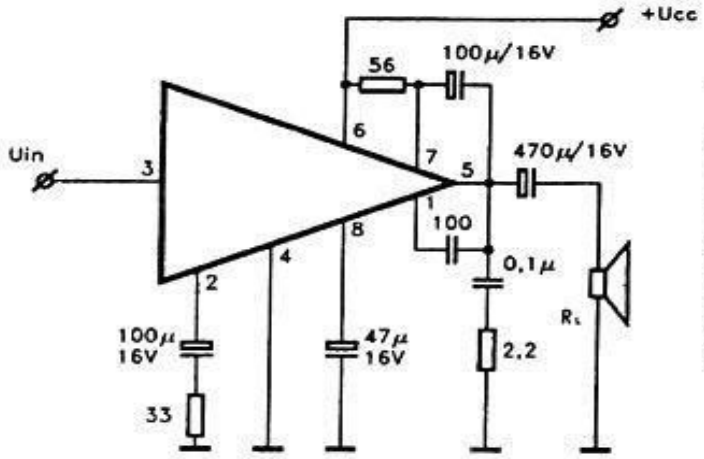


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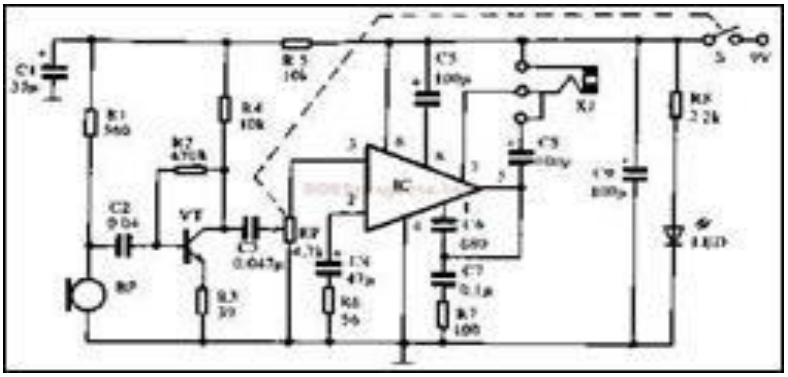
ÇEŞİTLİ DEVRE ŞEMALARI







Тип		KA2201(A,B)	KA2201N
Ucc_{min}	V	4,8	6
Ucc_{nom}	V	6	12
Ucc_{max}	V	14	16
Pout	W	0,5	2
RL	Ω	8	8
Корпус		8-DIP	



KA2206B

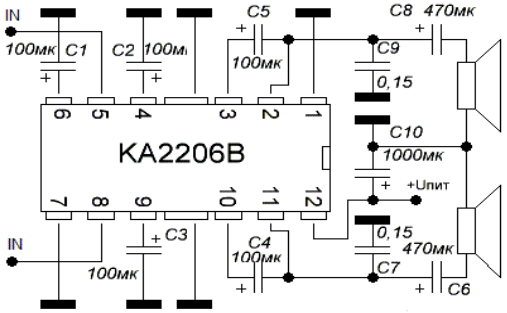
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STEREO AMPLİFİKATÖR

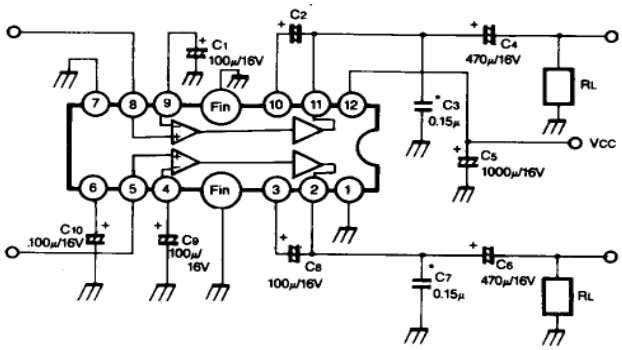


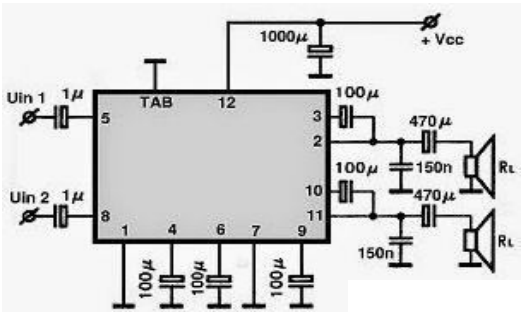
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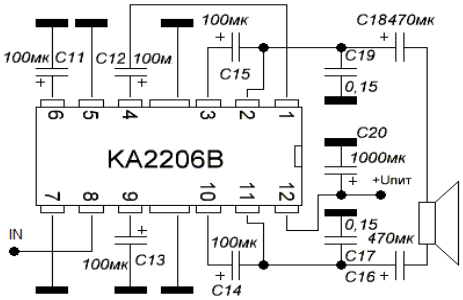
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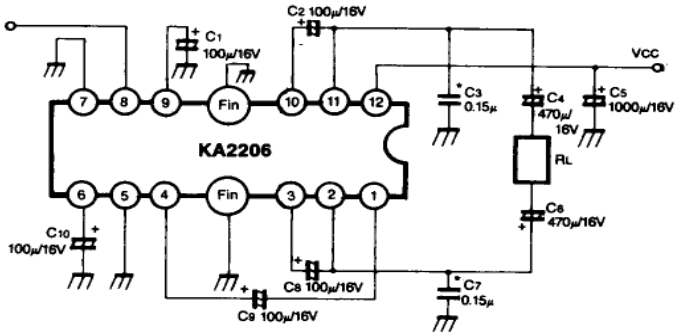


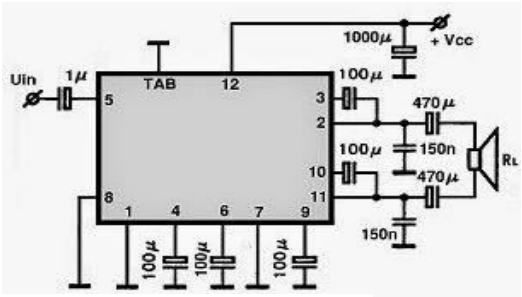


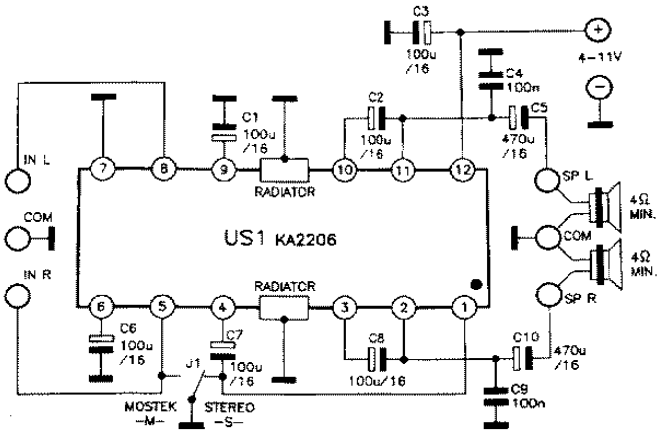


4.7 WATT MONO AMPLİFİKATÖR









KA2209

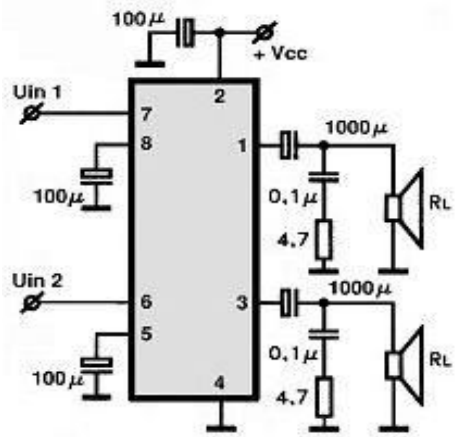
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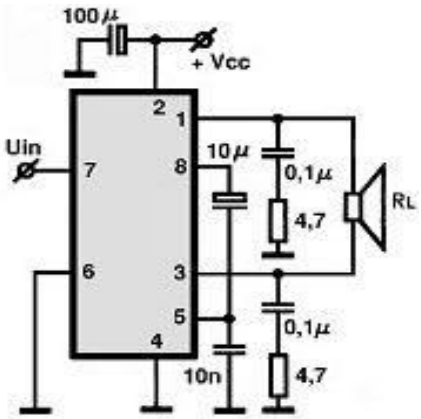
STEREO AMPLİFİKATÖR

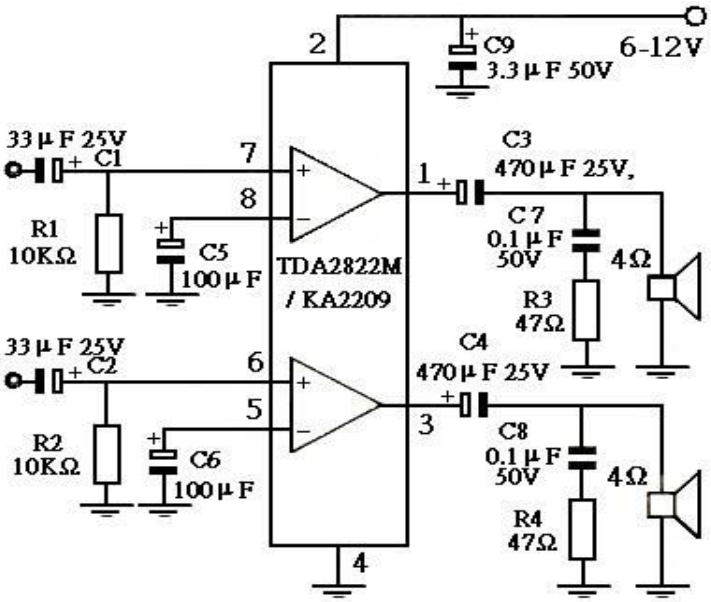


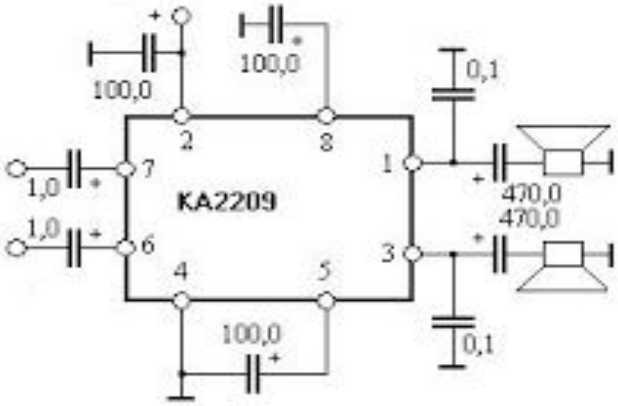
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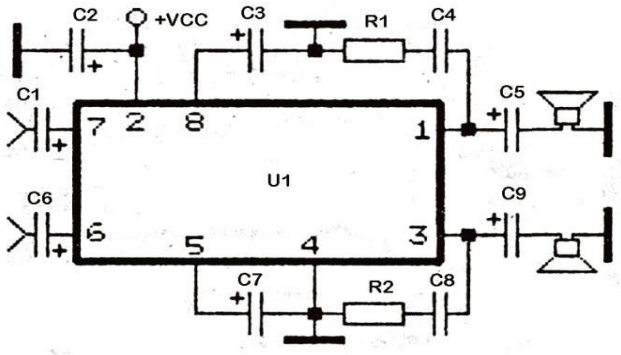
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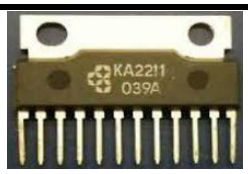






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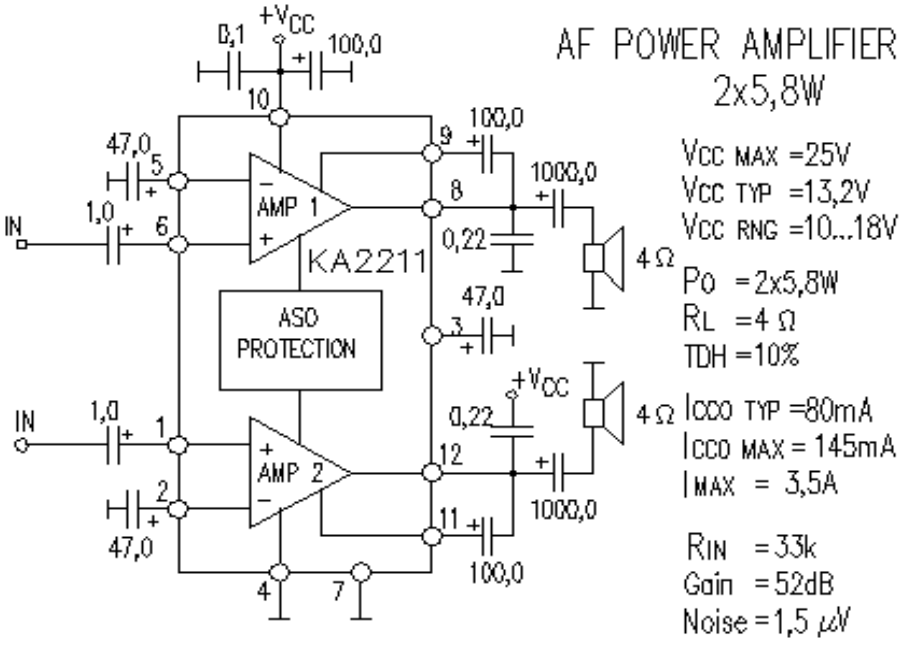
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STEREO AMPLİFİKATÖR

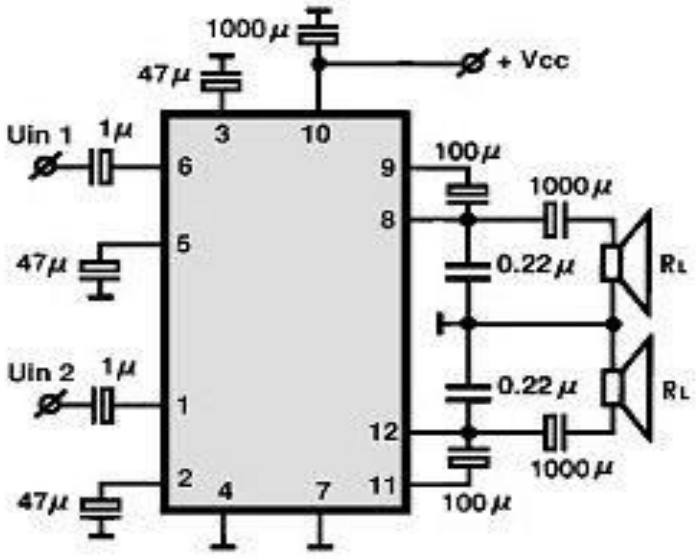


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5.8 WATT STEREO AMPLİFİKATÖR





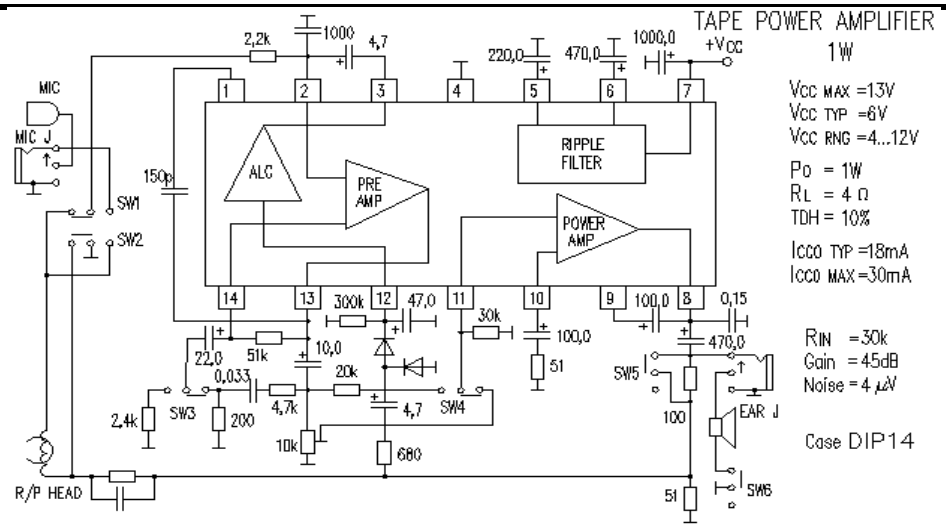
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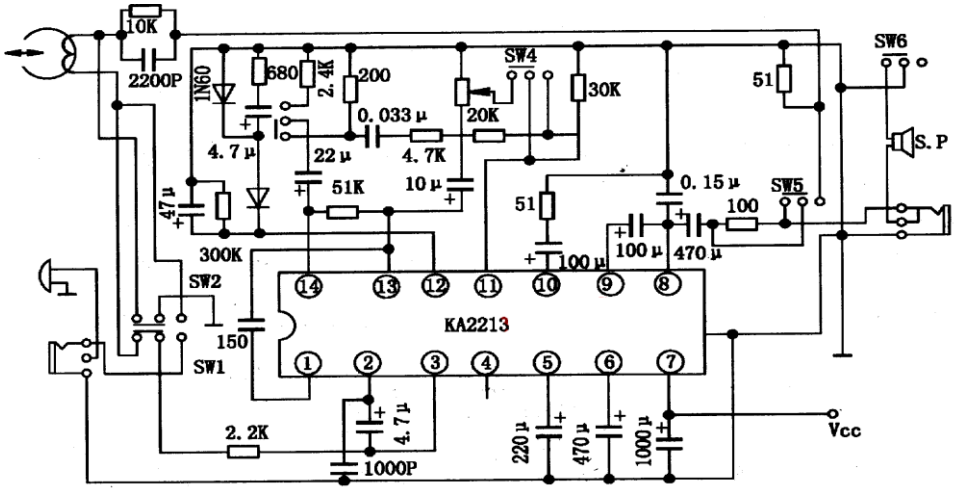
KOMPLE TEYP
1 WATT AMPLİFİKATÖR

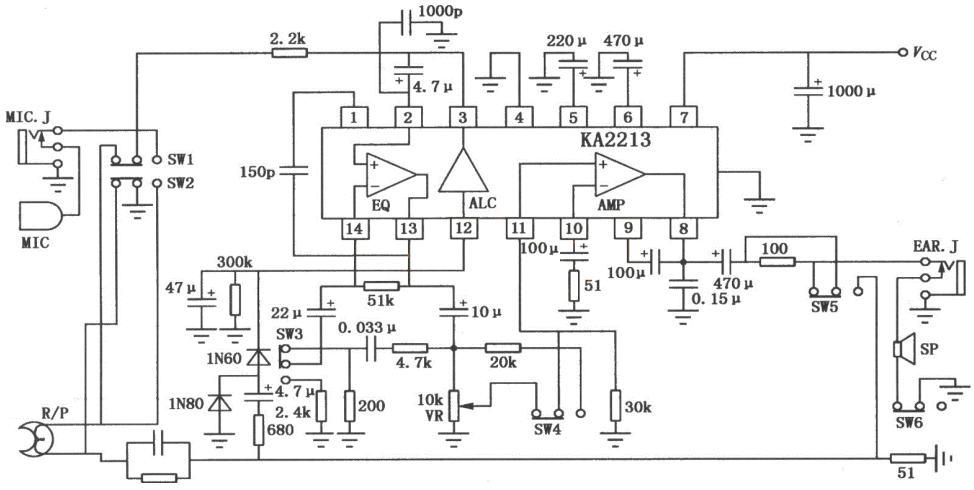


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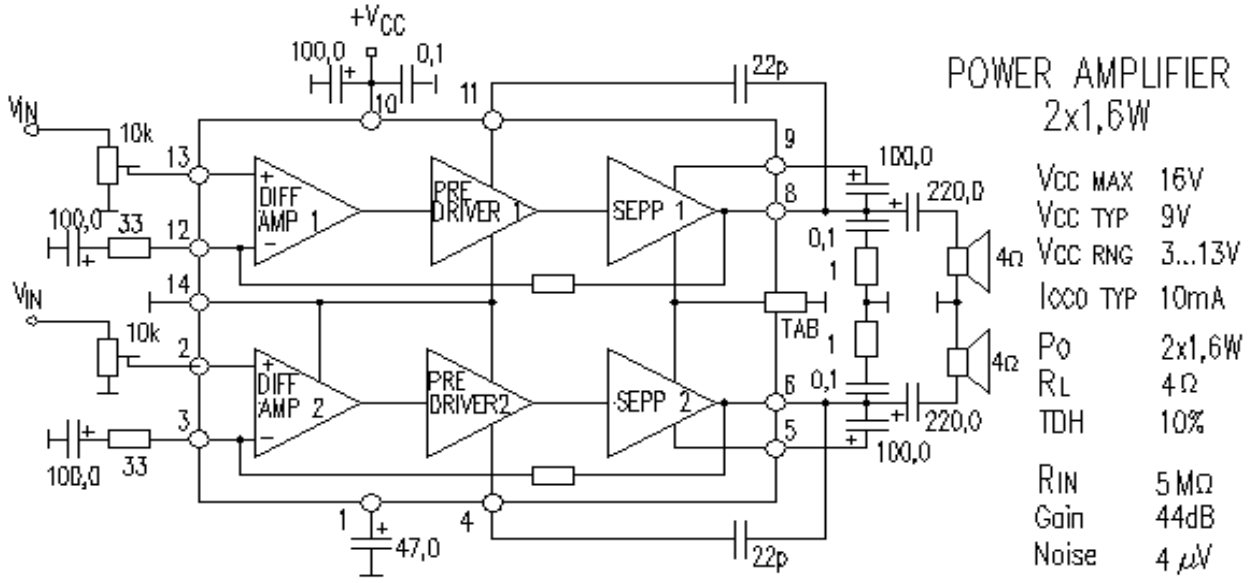
KA2214

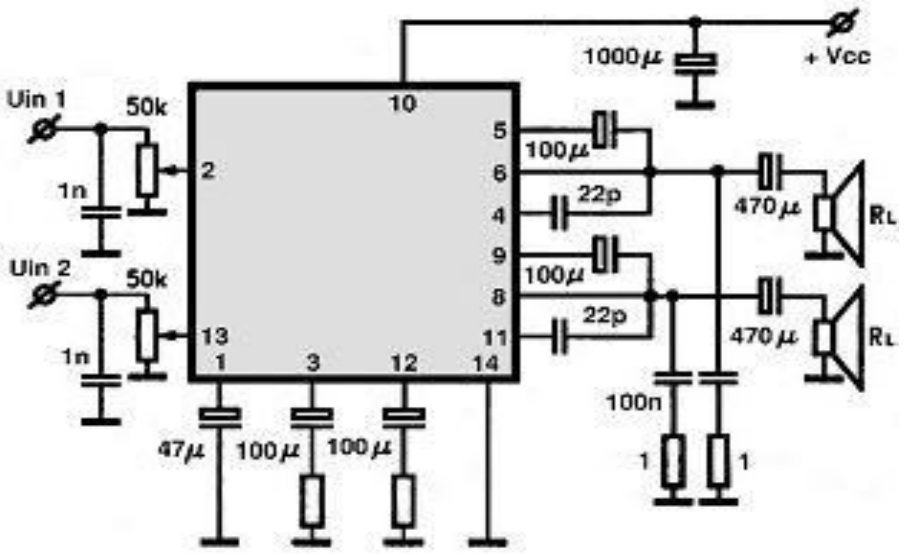
1.6 WATT
STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





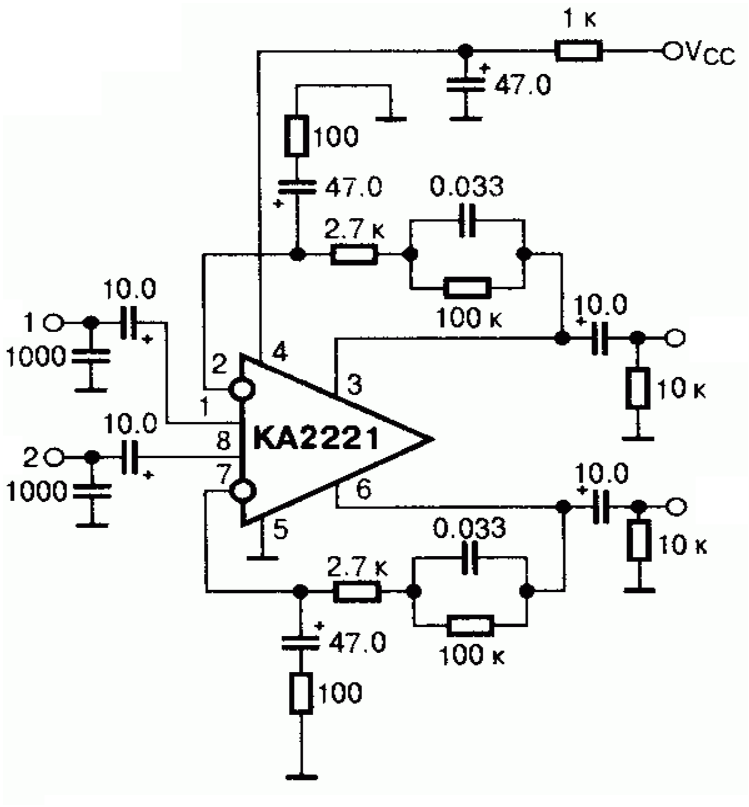
KA2221

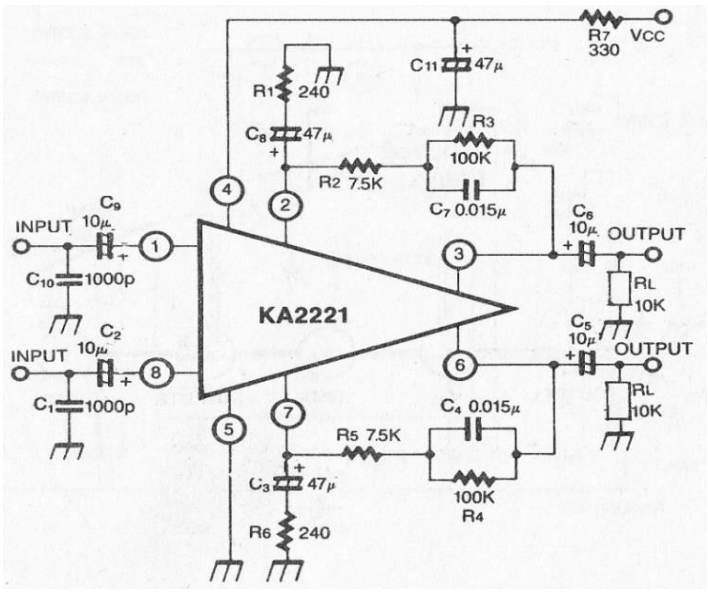
DÜŞÜK GÜRÜLTÜLÜ ÇİFT EQUALİZER AMPLİFİKATÖRÜ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





KA2223

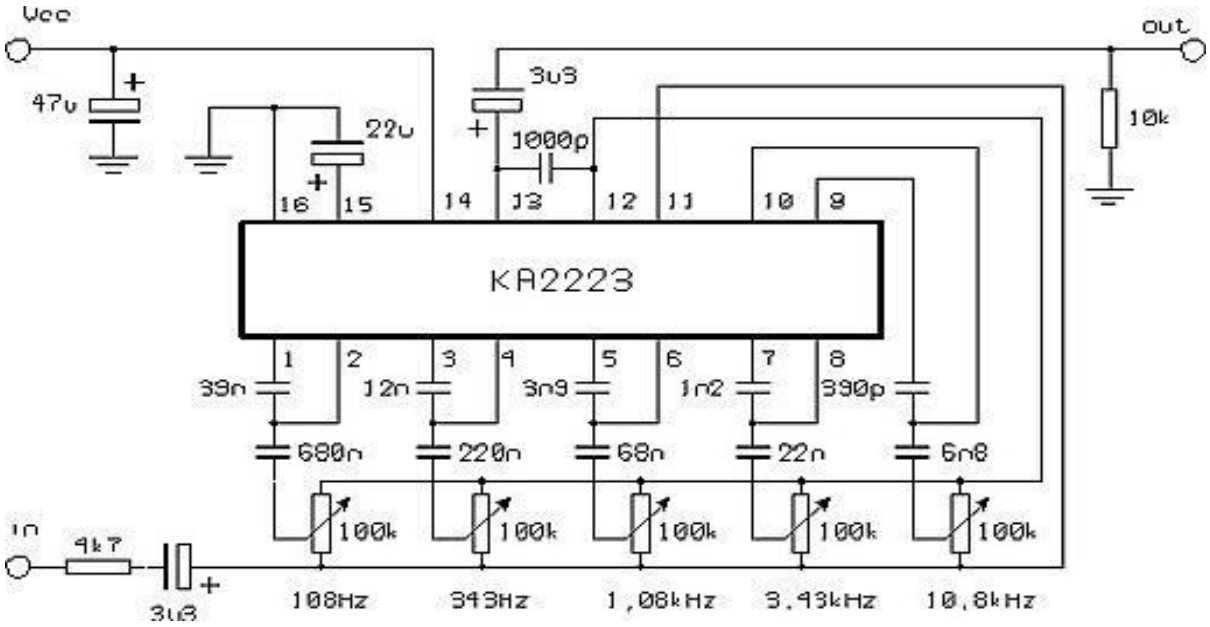
5 BAND GRAFİK EQUALİZER



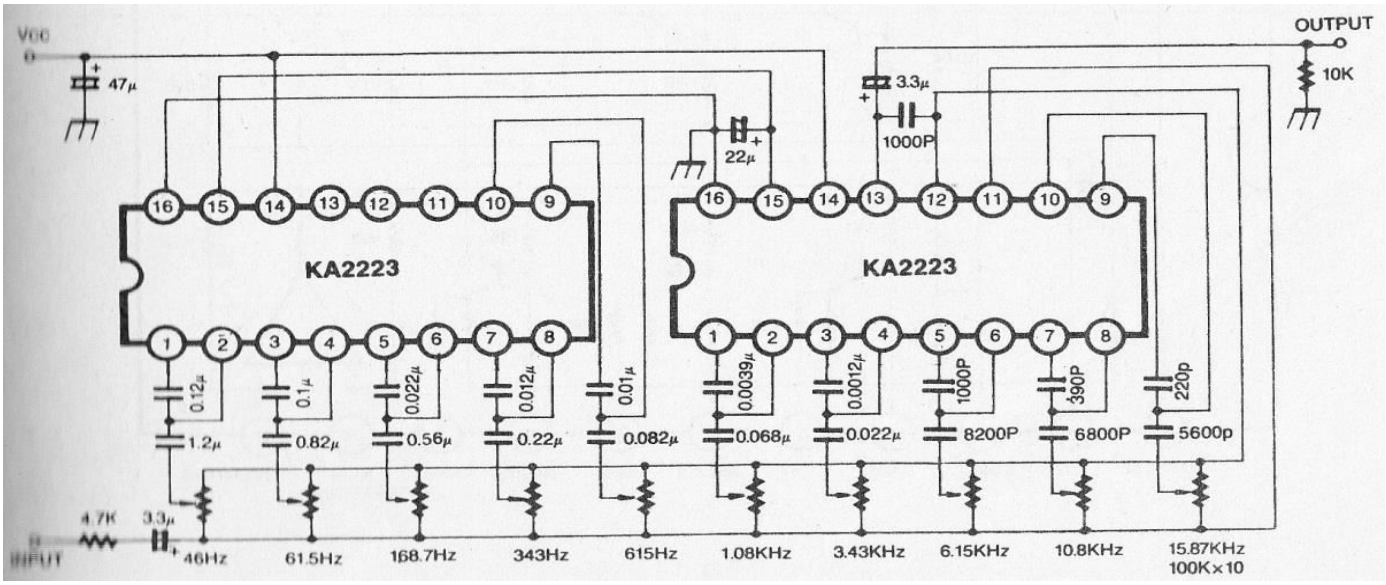
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

5 BAND GRAFİK EQUALİZER



10 BAND GRAFİK EQUALİZER



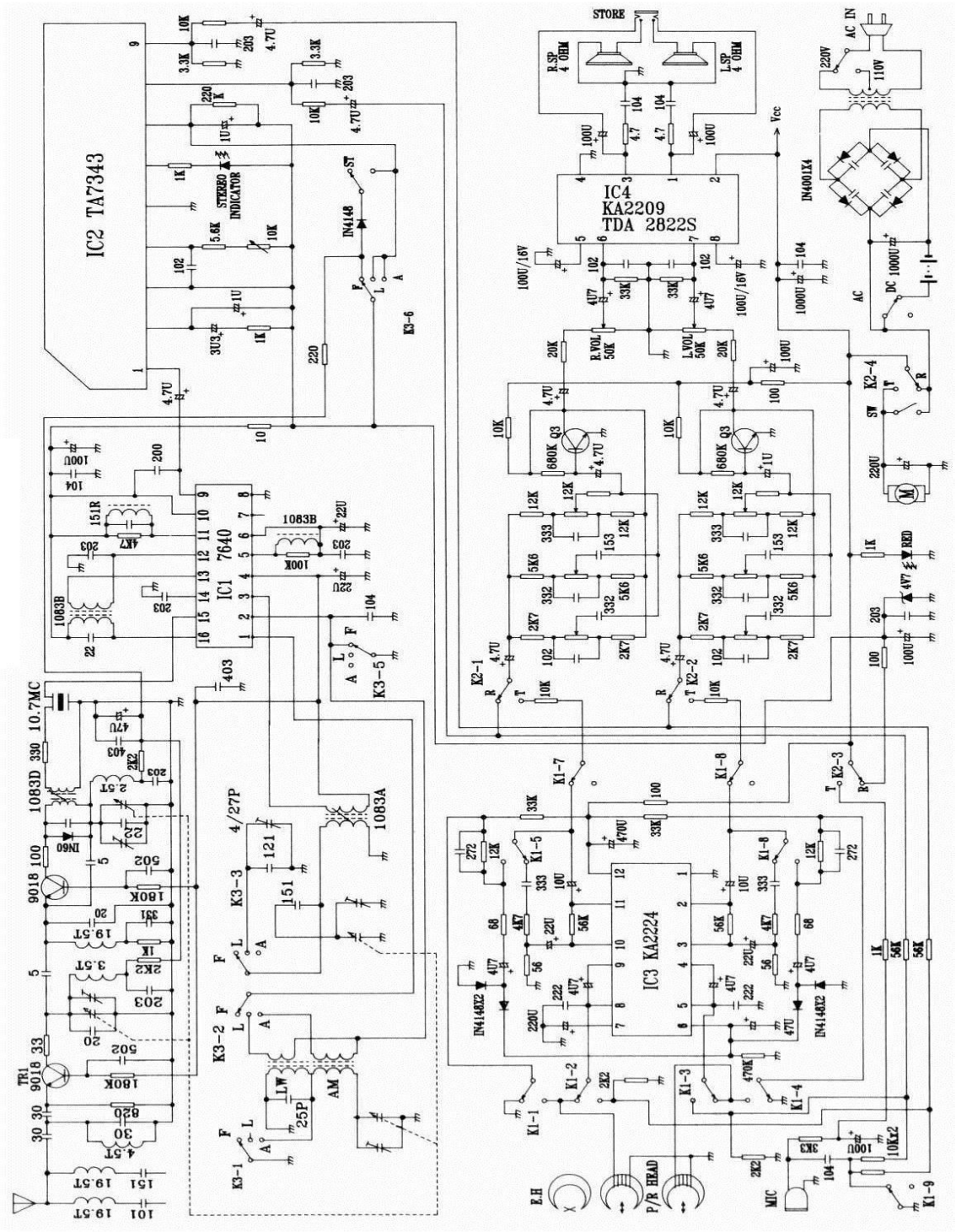
KA2224

İKİ KANAL
EQUALİZER AMPLİFİKATÖRÜ



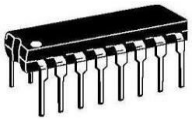
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



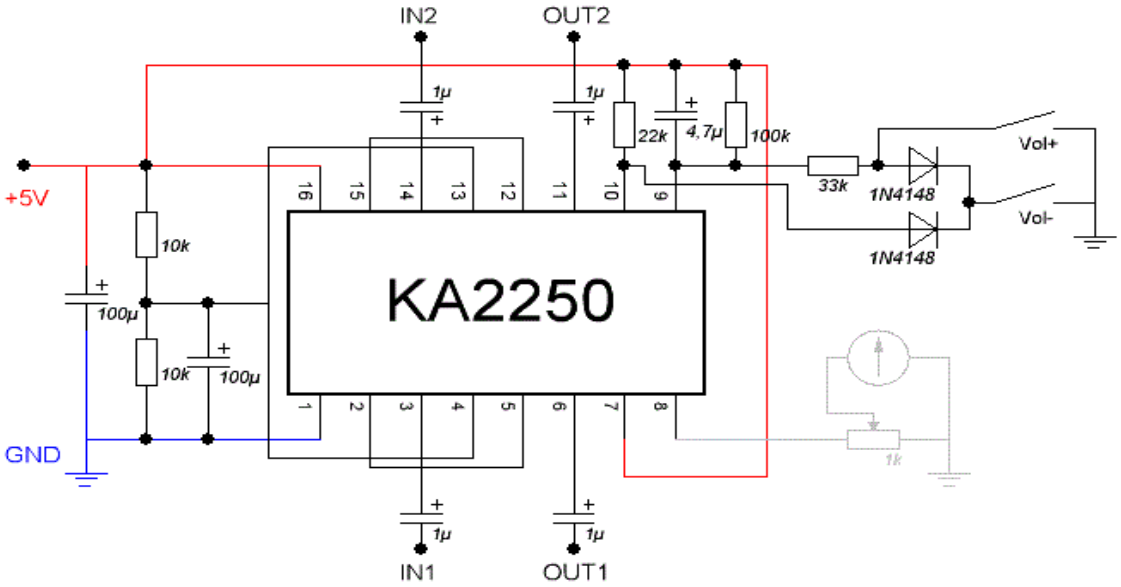
KA2250

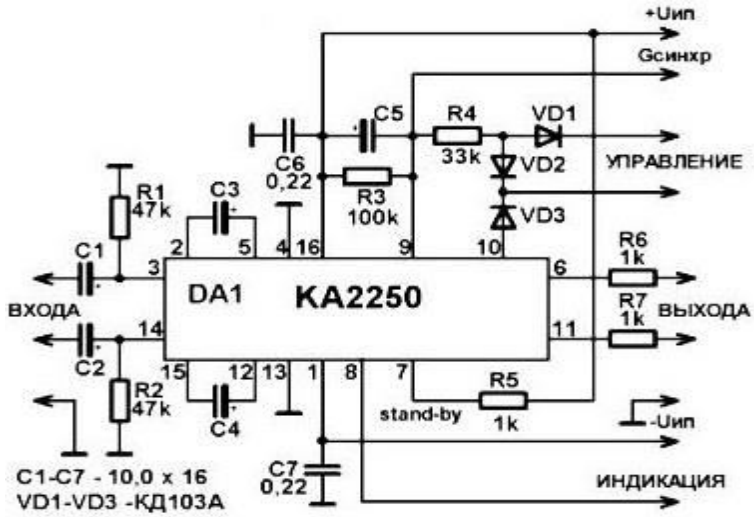
4 KANAL DİJİTAL SES KONTROL

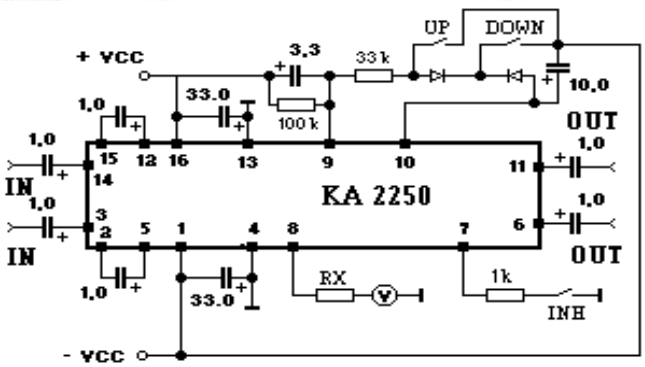


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







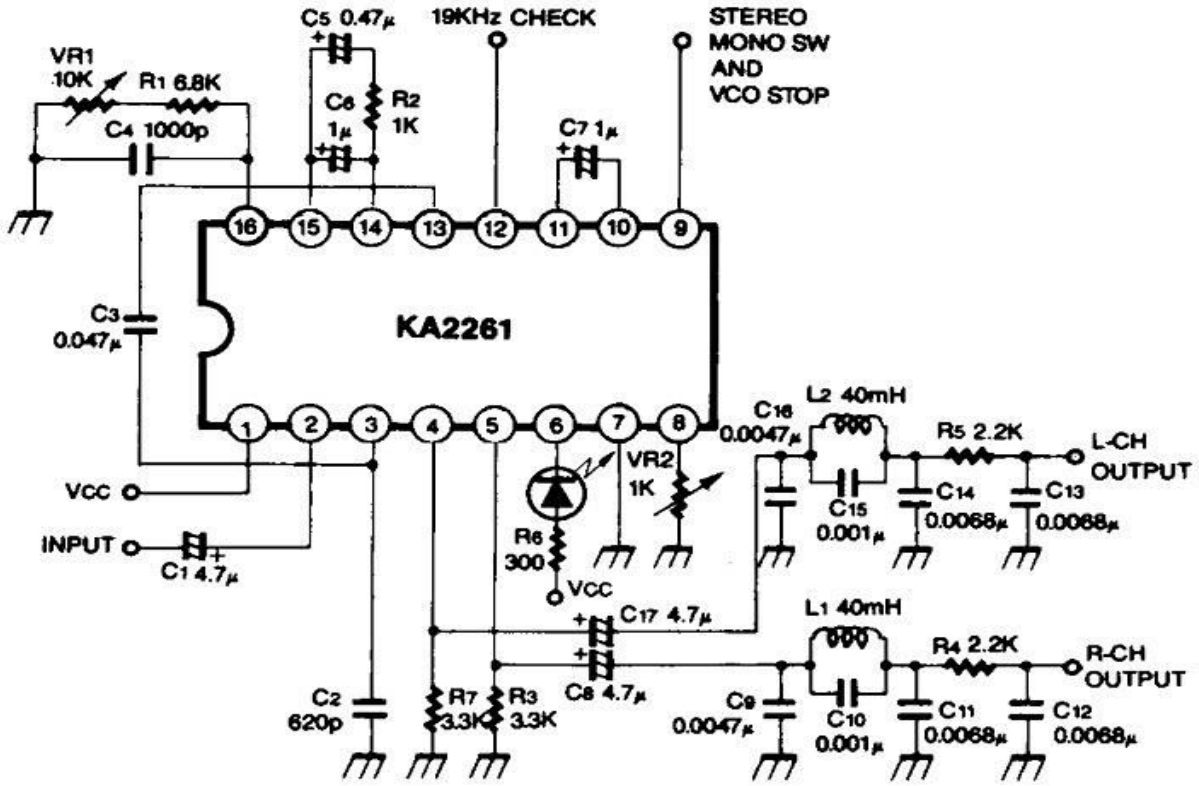
KA2261

FM STEREO
MULTİPLEX DEKODER



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



KA2281

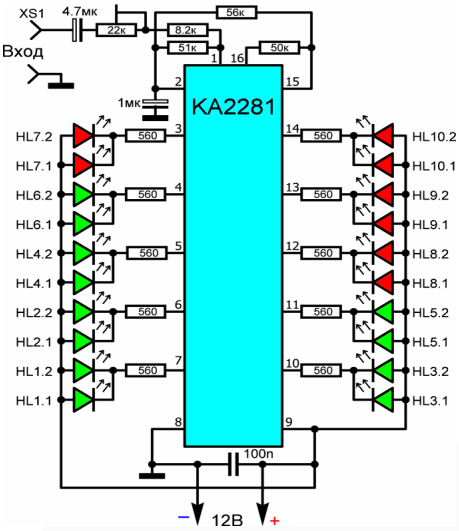
LED SİNYAL GÖSTERGESİ (VU METRE)



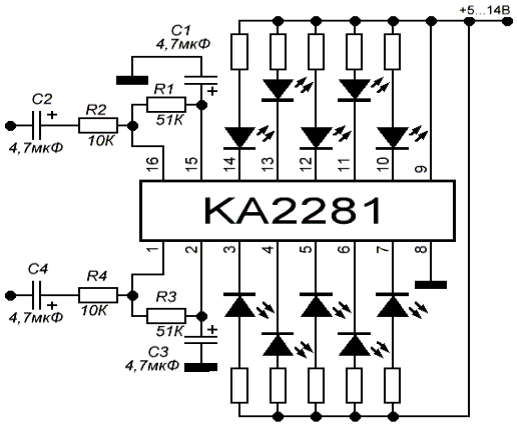
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

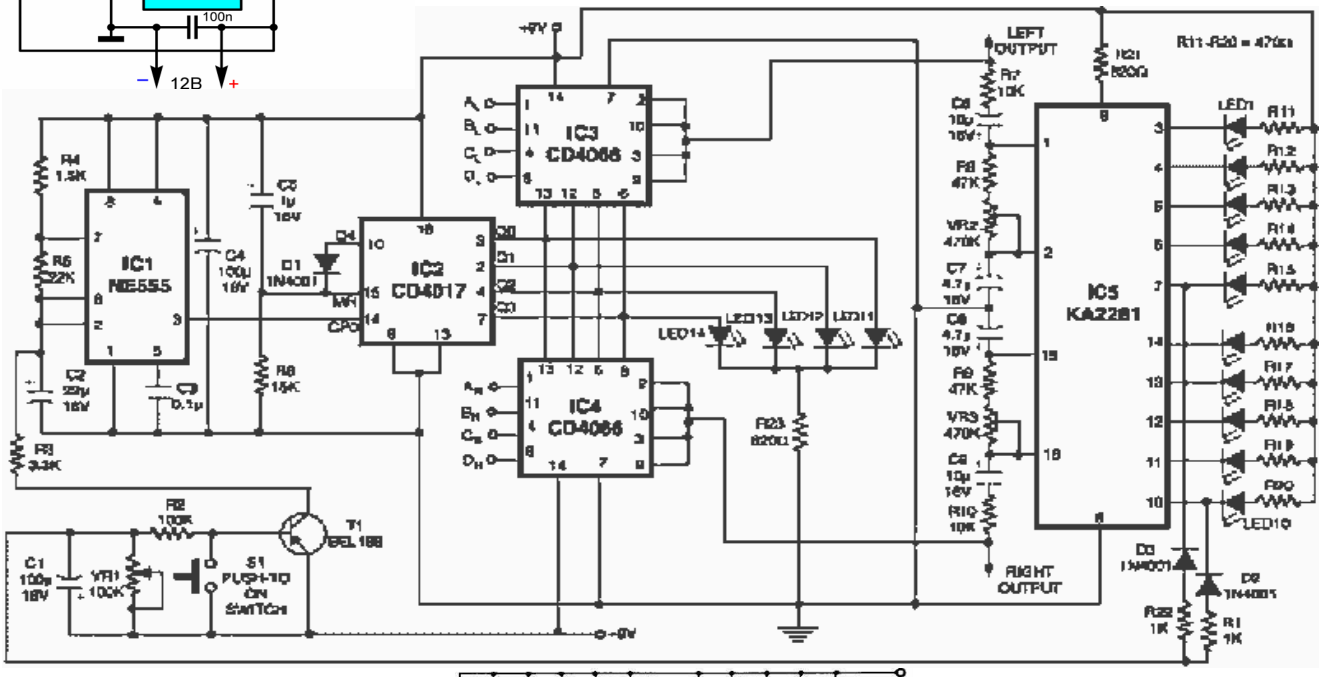
STEREO VU METRE

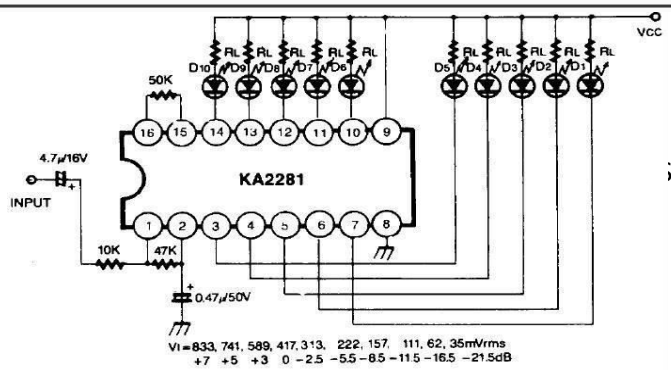


STEREO VU METRE



STEREO
4 SES KANALI SEÇİCİSİ



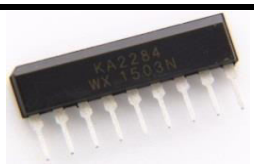


STEREO VU METRE

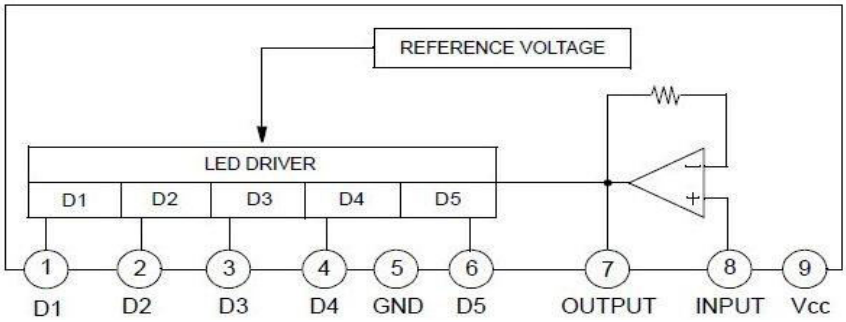
KA2284

LED SİNYAL GÖSTERGESİ

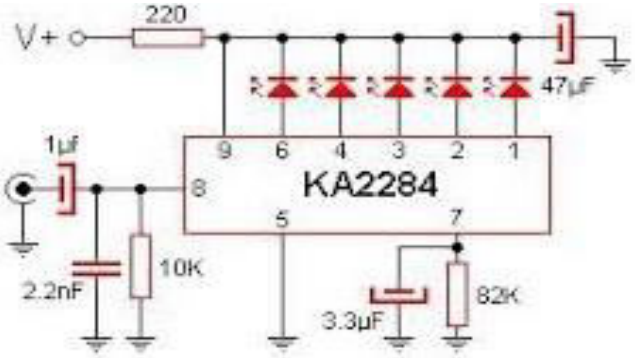
(VU METRE)

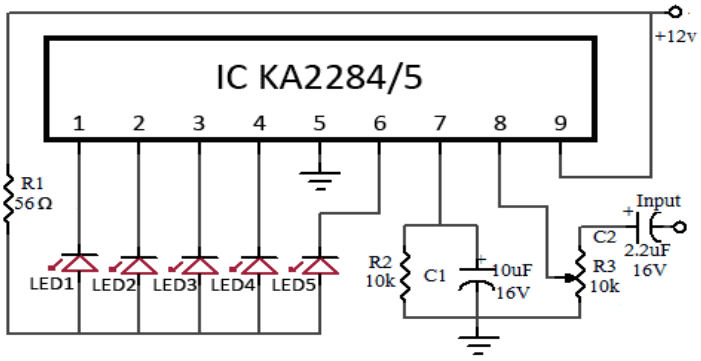


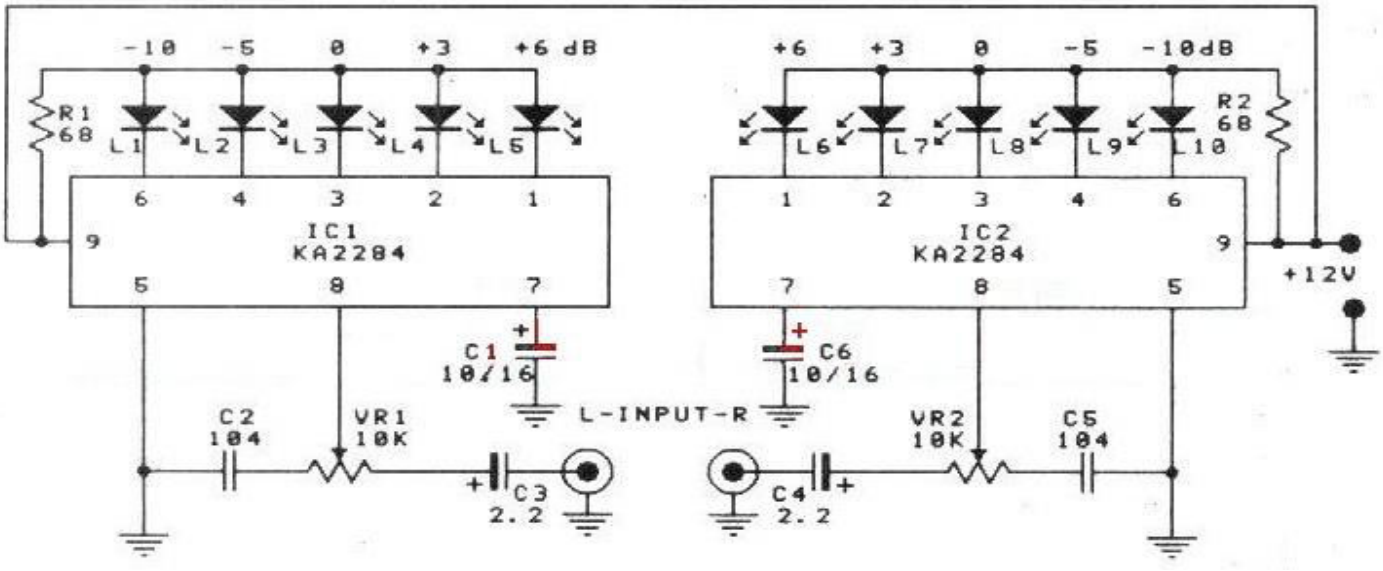
İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI





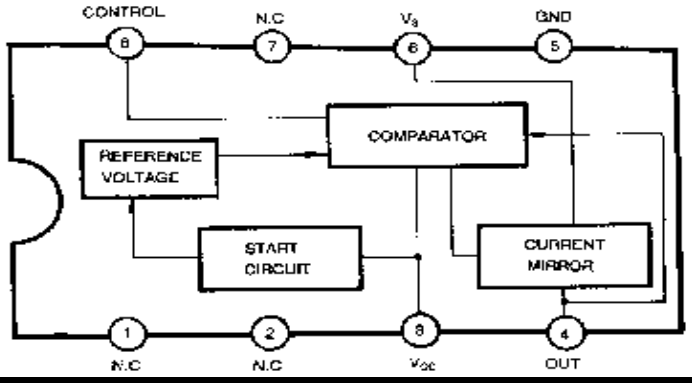


KA2402

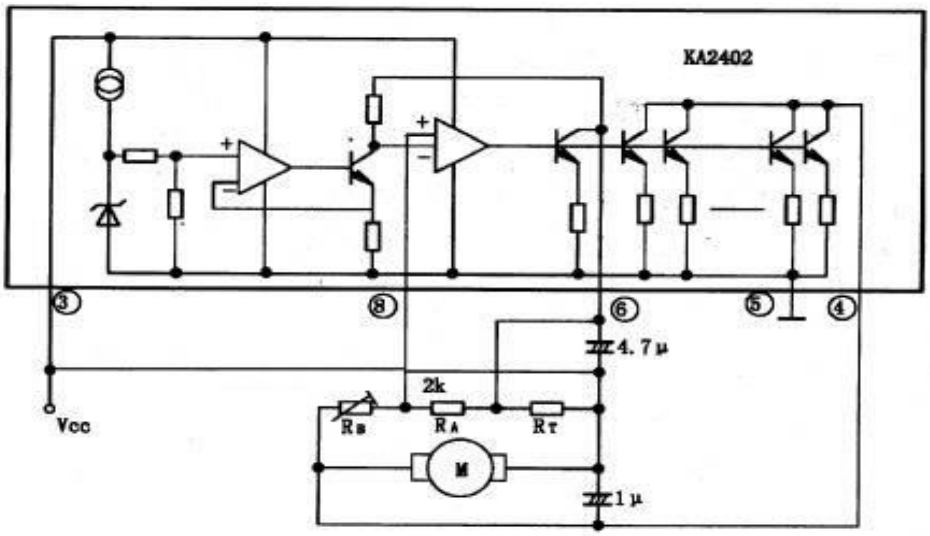
DC MOTOR
HIZ KONTROLÜ

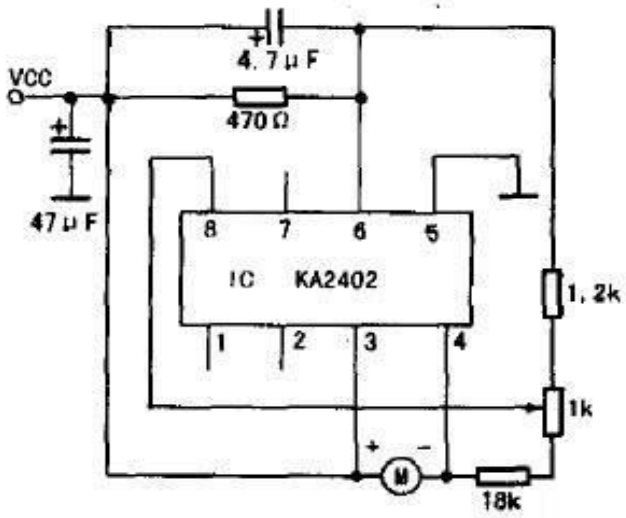


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



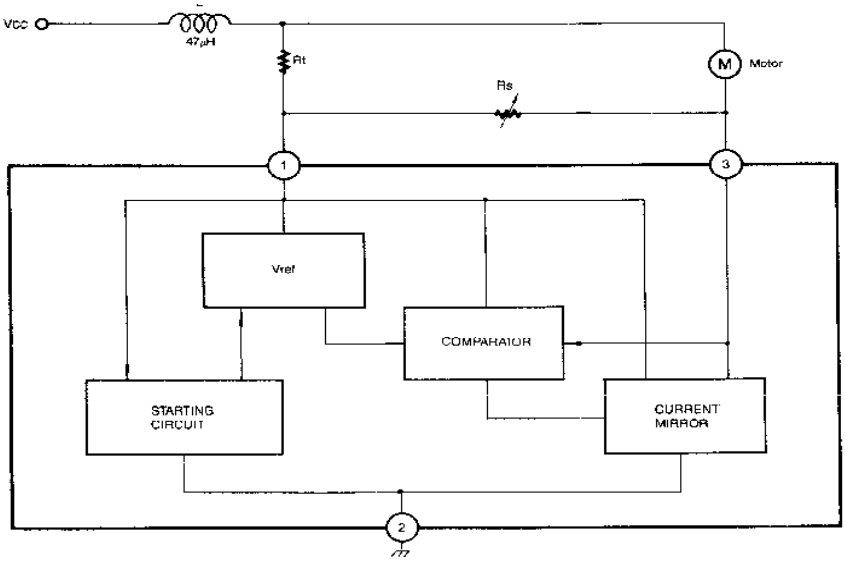


KA2404

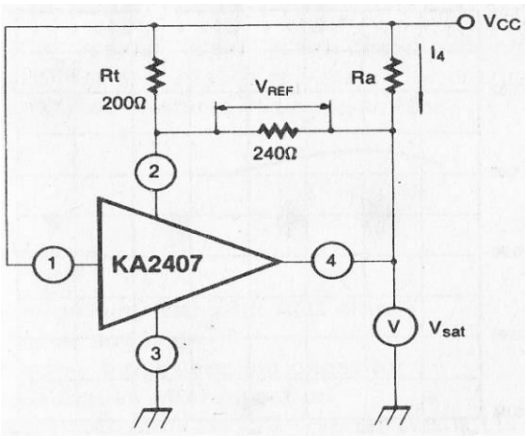
DC MOTOR
HIZ KONTROLÜ

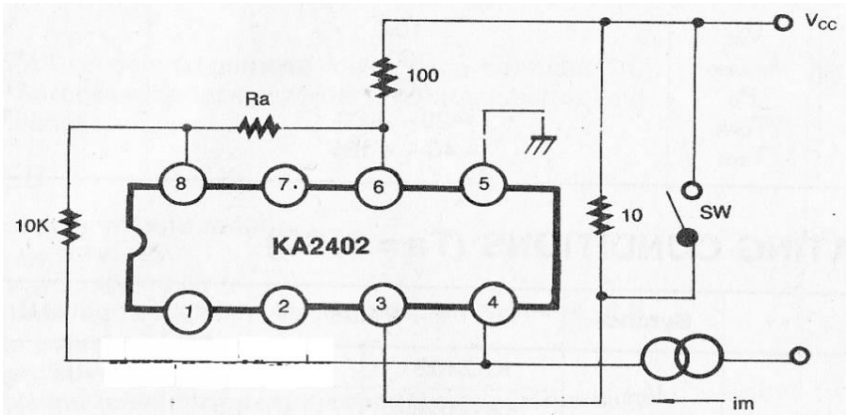


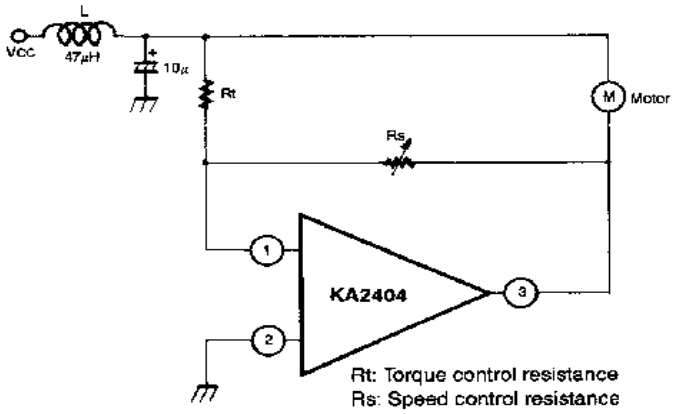
İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI







KA22135

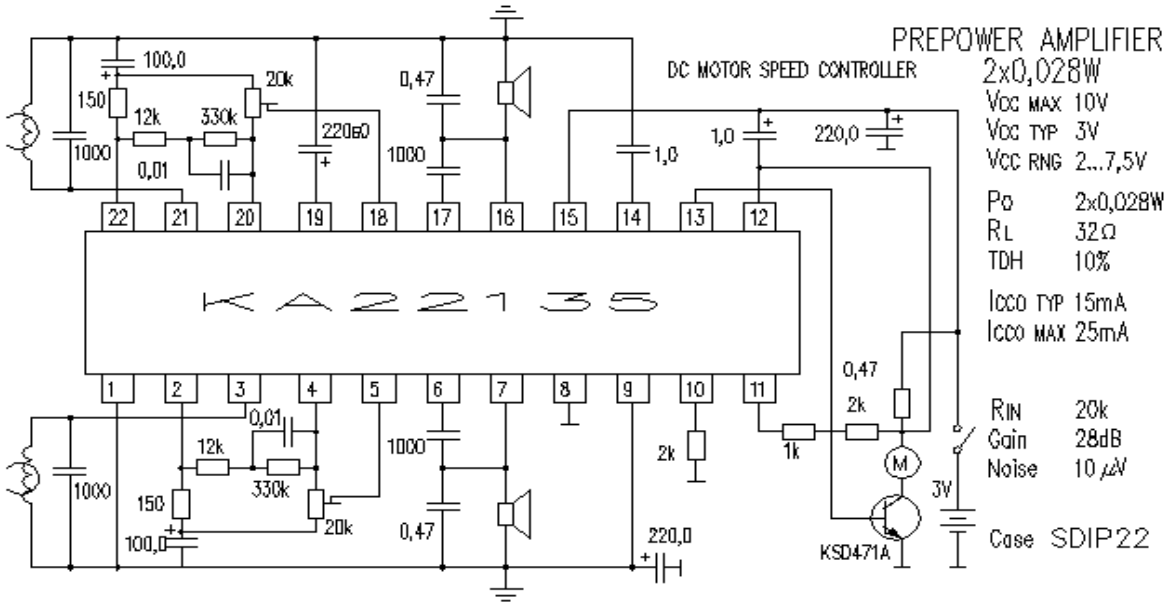
0.028 WATT ÇIKIŞLI

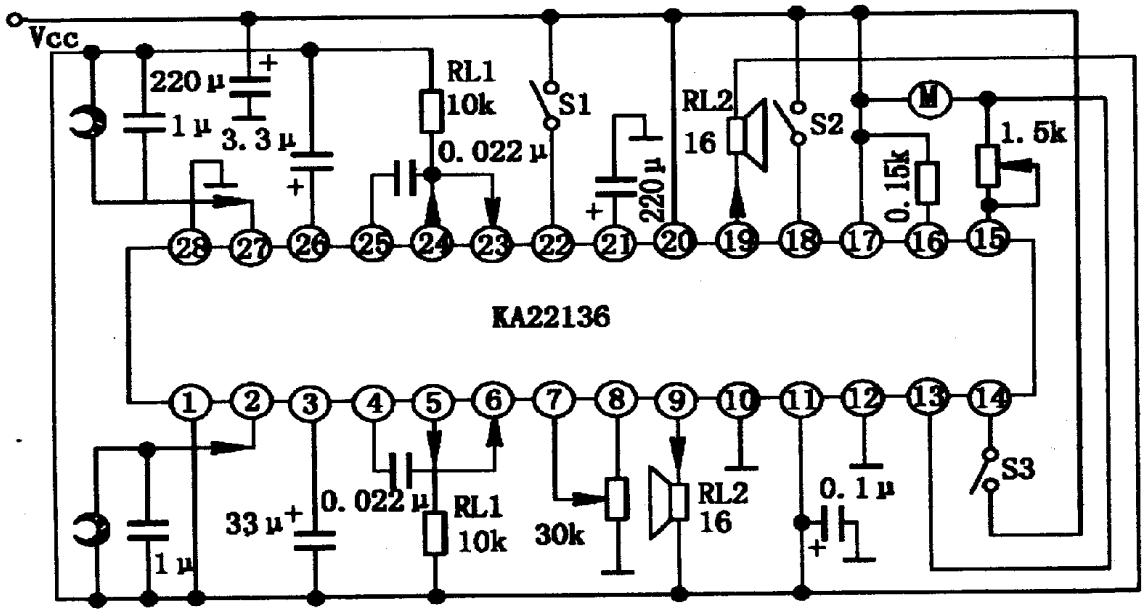
KOMPLE TEYP



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

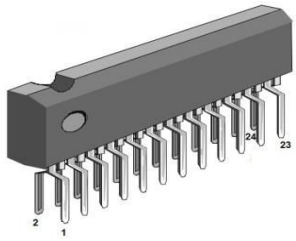




KA22234

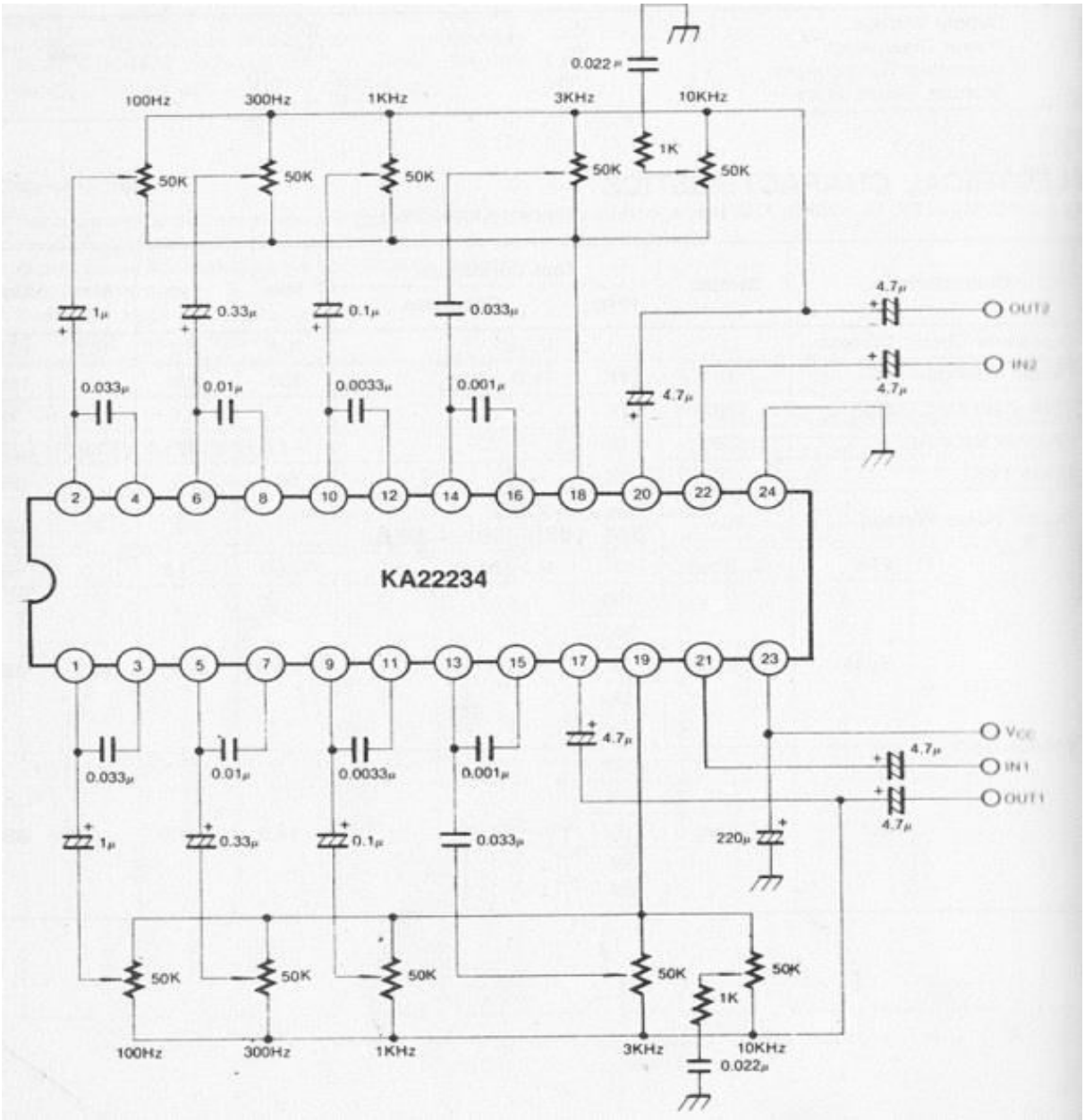
STEREO 5 BAND

GRAFİK EQUALİZER



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



KA22425 / CXA 1191M

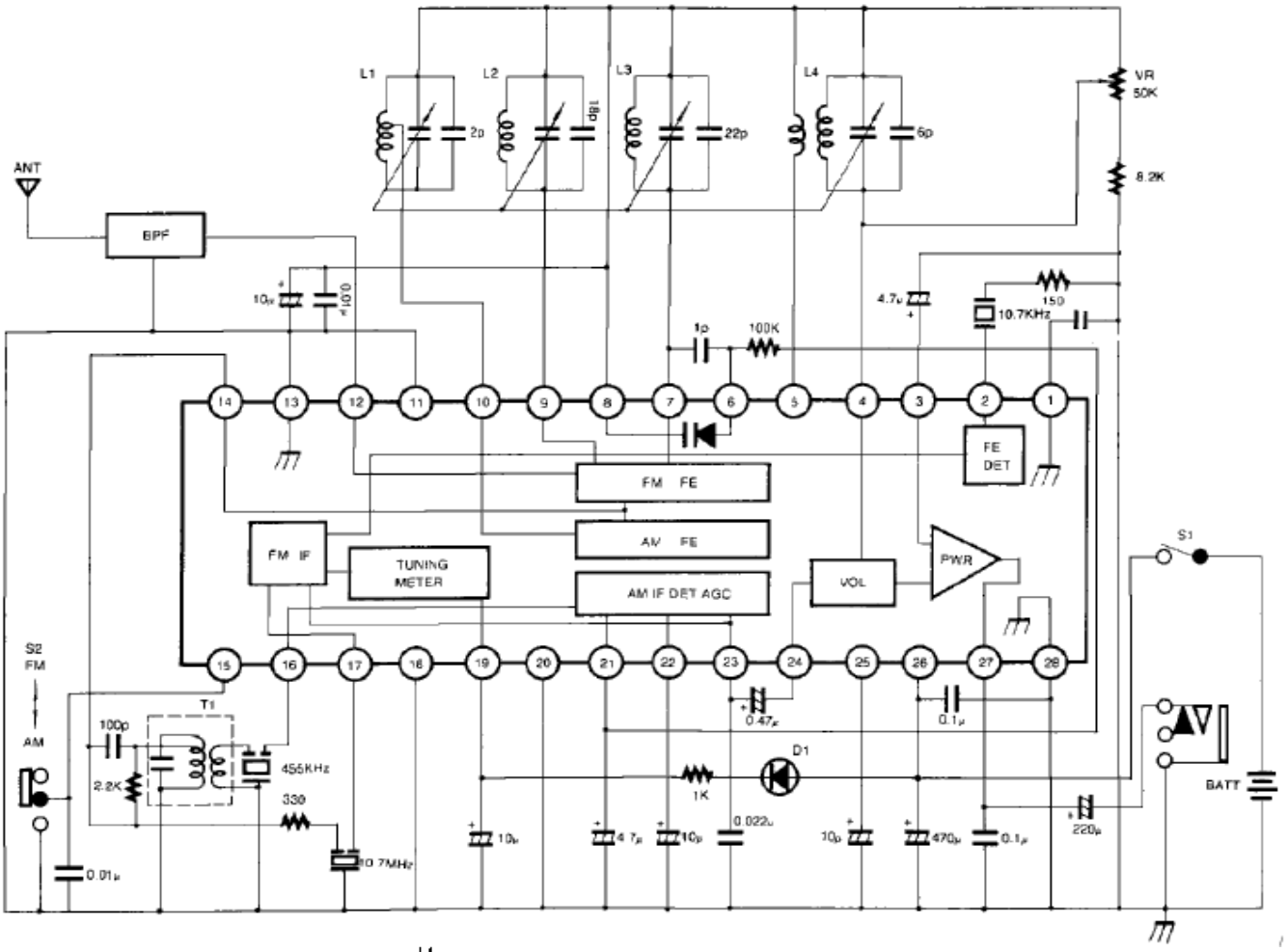
AM / FM
RADYO

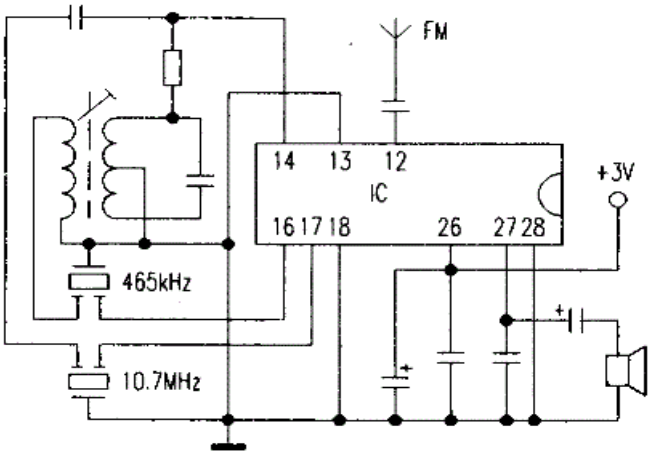


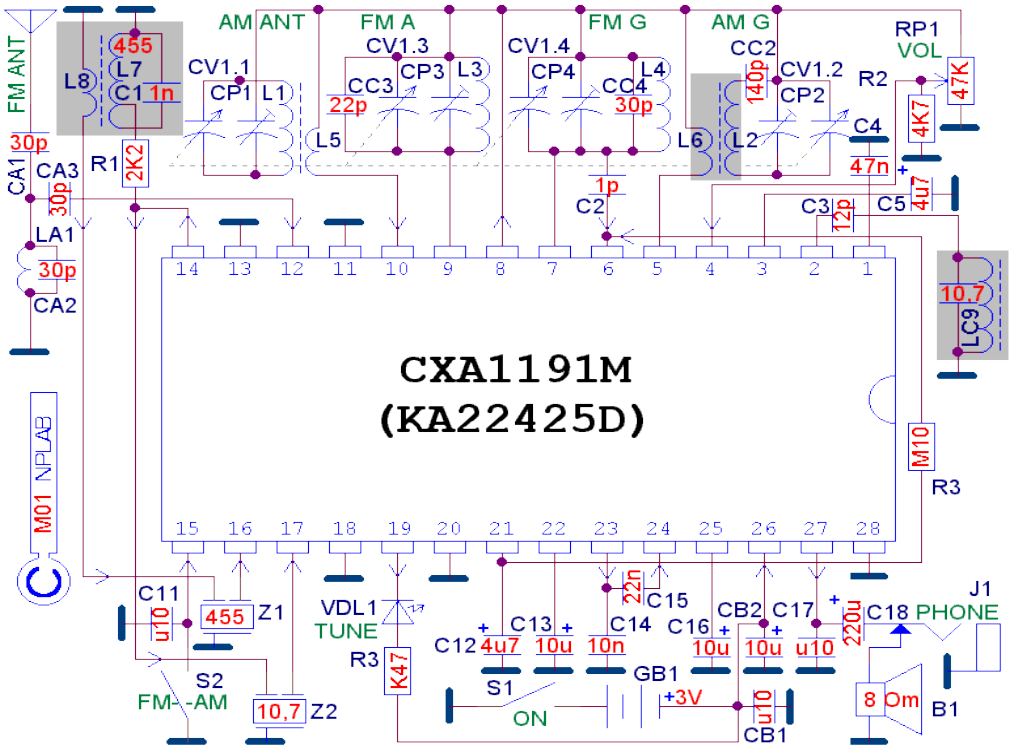


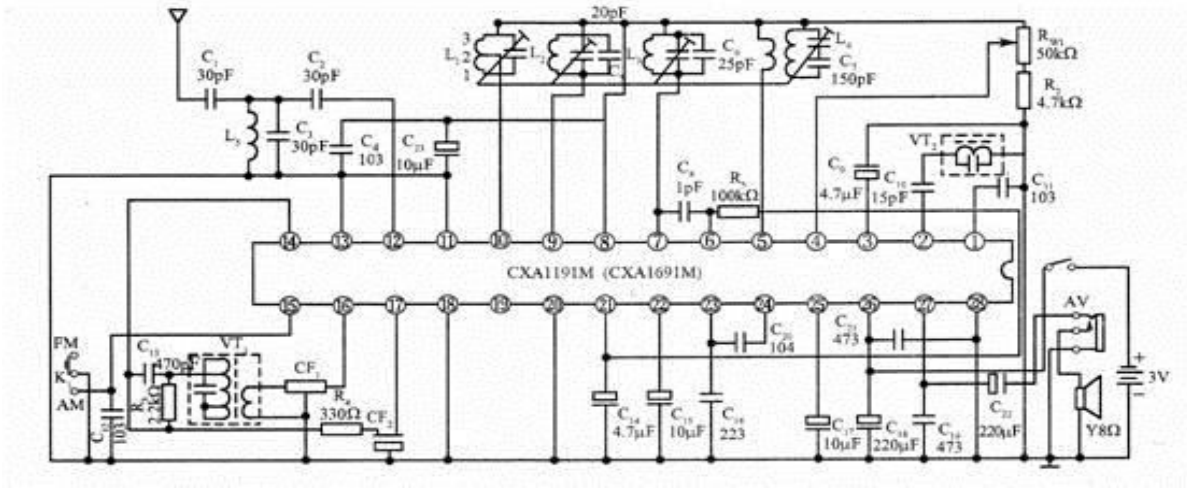
İÇ YAPISI

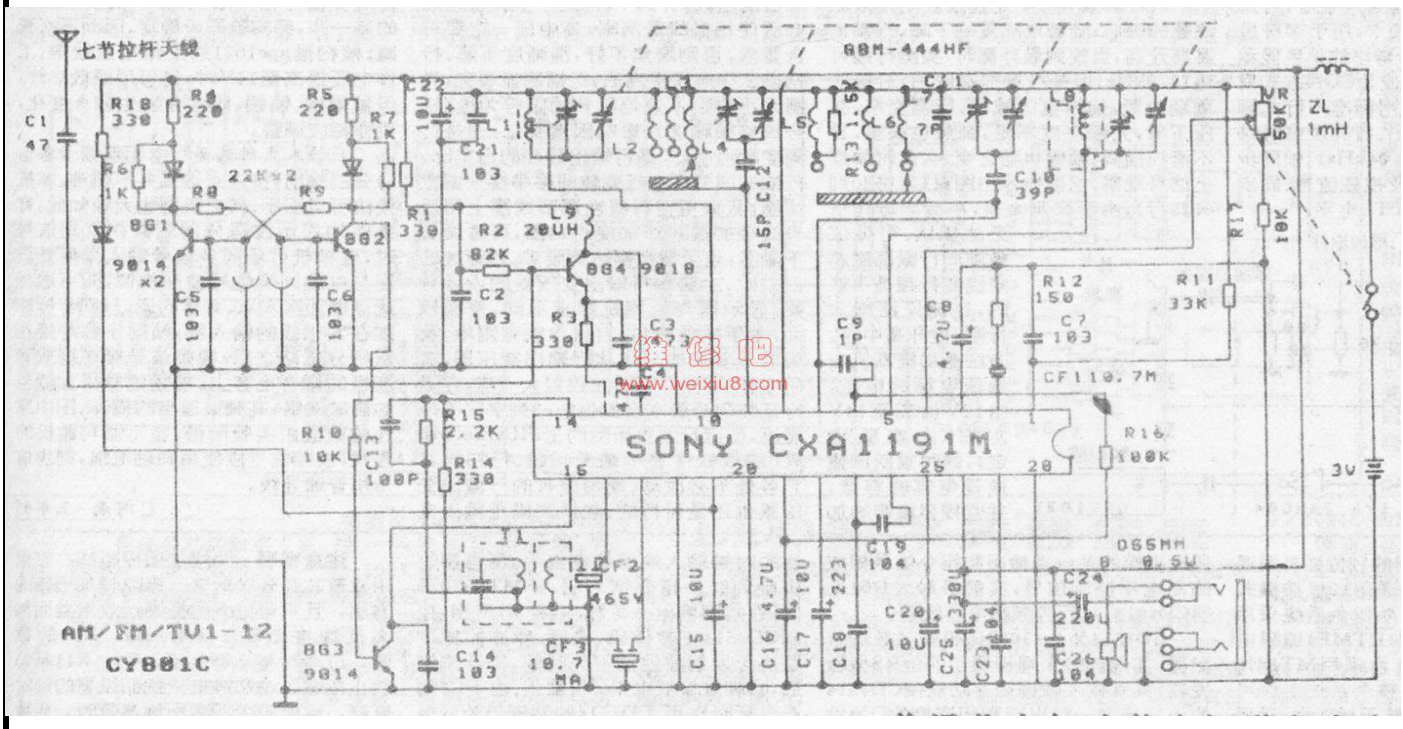
ÇEŞİTLİ DEVRE ŞEMALARI






CXA1191M
(KA22425D)
FM ANT
AM ANT
FM A
FM G
AM G
RP1
VOL
CV1.1
CV1.3
CV1.4
CC2
CV1.2
CP1
CP3
CP4
CP2
L1
L3
L4
L5
L6
L2
L7
L8
L9
LA1
LC9
CA1
CA2
CA3
R1
R2
R3
C1
C2
C3
C4
C5
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
CB1
CB2
VDL1
TUNE
Z1
Z2
S1
S2
ON
GB1
+3V
J1
PHONE
8 Om
B1
M01
M10
455
10,7
30p
1n
2K2
47K
4K7
47n
4u7
12p
140p
22p
1p
22n
10u
4u7
10n
220u
K47
FM-AM

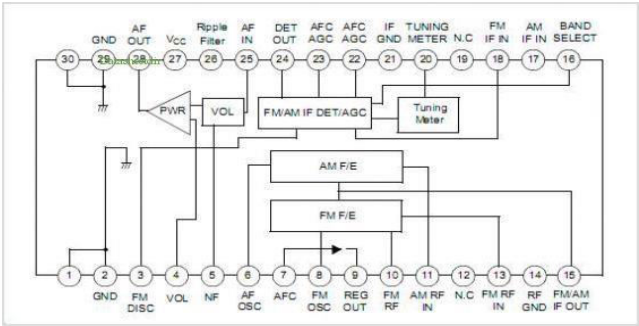

CXA1191M (CXA1691M)
AV
FM
AM
3V
Y8Ω


七节拉杆天线
SONY CXA1191M
AM/FM/TV1-12
CY801C
ZL
1mH
3V

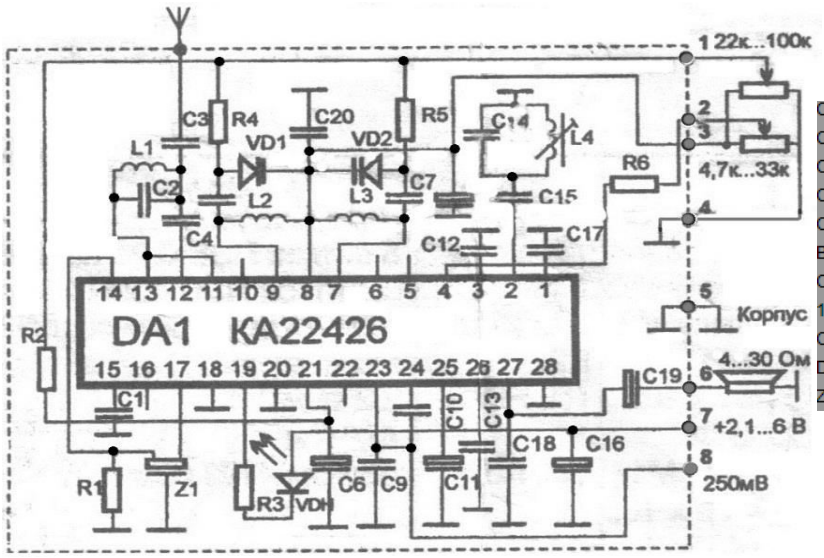
KA22426 / CXA 1191M

AM / FM RADYO	

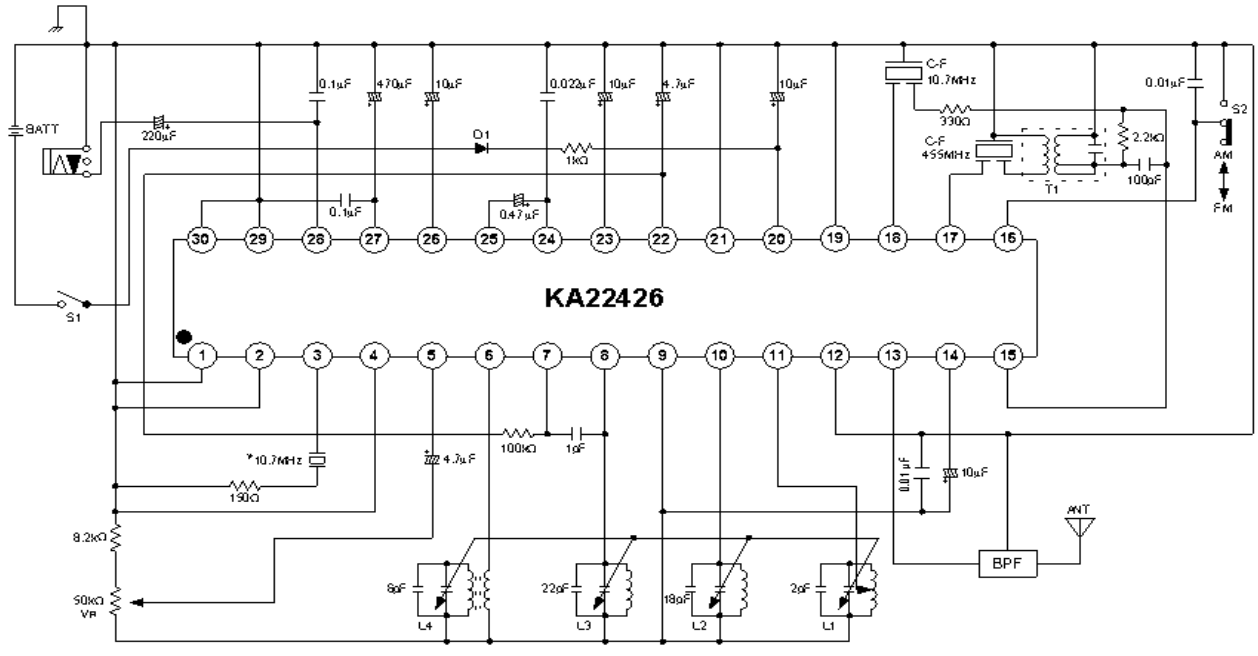
İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

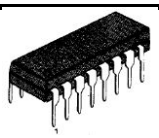


C1.C9, S17 0.01 uf L1, L3 7 sarım ПЭВ-0,24 üzerinde mandrel 2m
C2, SZ, C4, C15 33пФ L2 8 sarım ПЭВ-0,24 üzerinde mandrel 2m
C5, C7 1000 pf L4 12 sarım ПЭВ-0,24 çerçeve 5m
C6 2.2 uf x 10V ile RF ferrit çekirdek
C10, C18, C20 0.1 ıcf R2 330 kom
Bende c11.C12 10мкФ x 10V R1,R6 2.2 kω
C13 0.22 ıcf R3 470Ом
14c 220пкФ-M47 R4,R5 68кОм-100кОм
C16, C19 220 uf x 10E
Da1 KA22426,CXA1191M VDH АЛ307Б
Z1 10.7 Mhz VD1,VD2 КВ109В

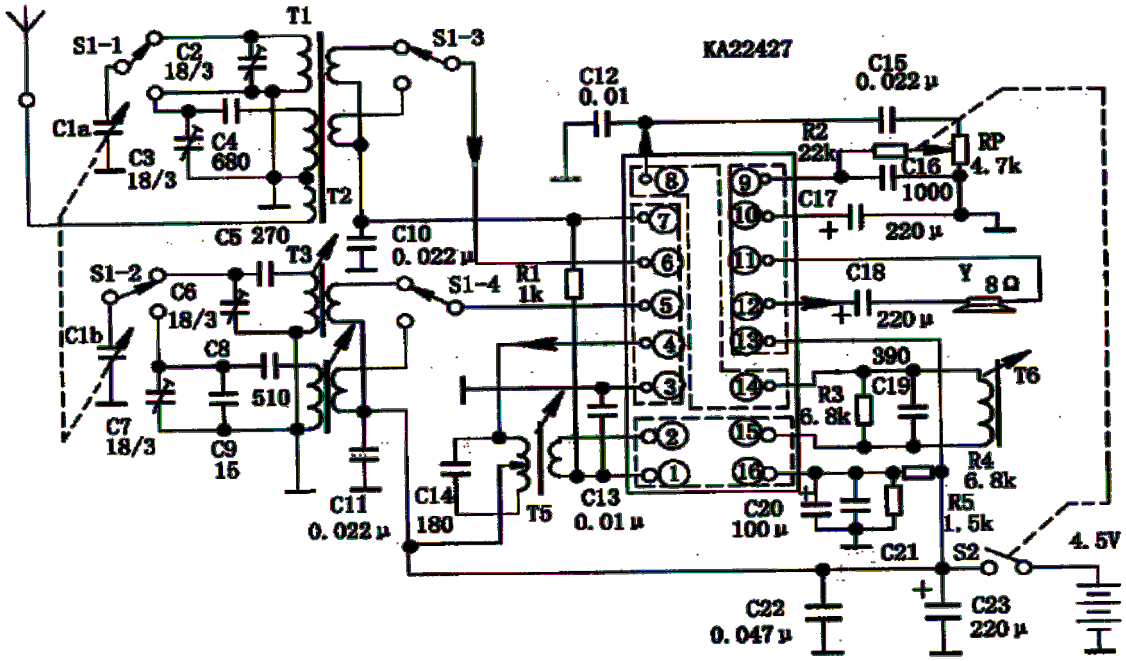


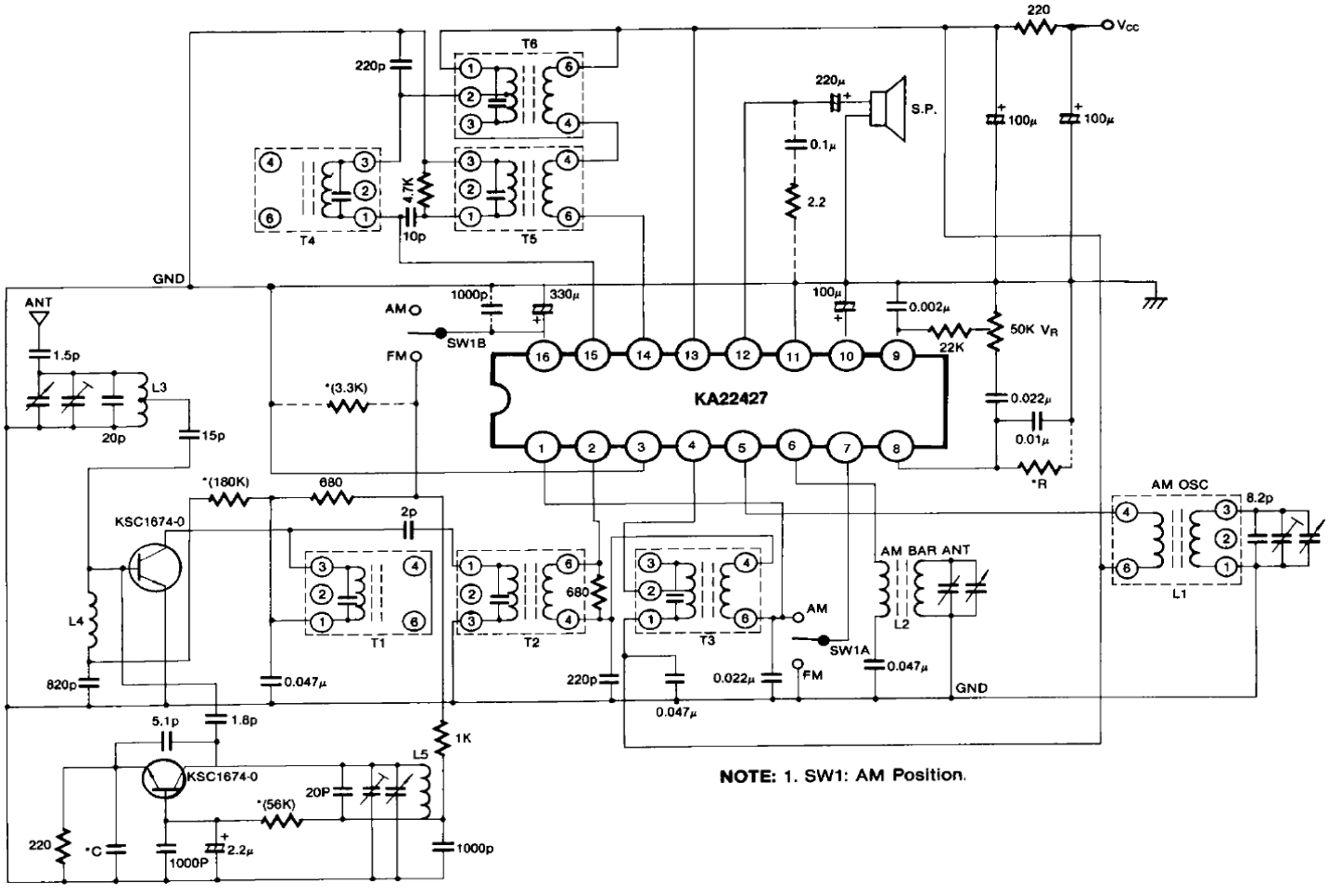
KA22427

AM / FM
RADYO

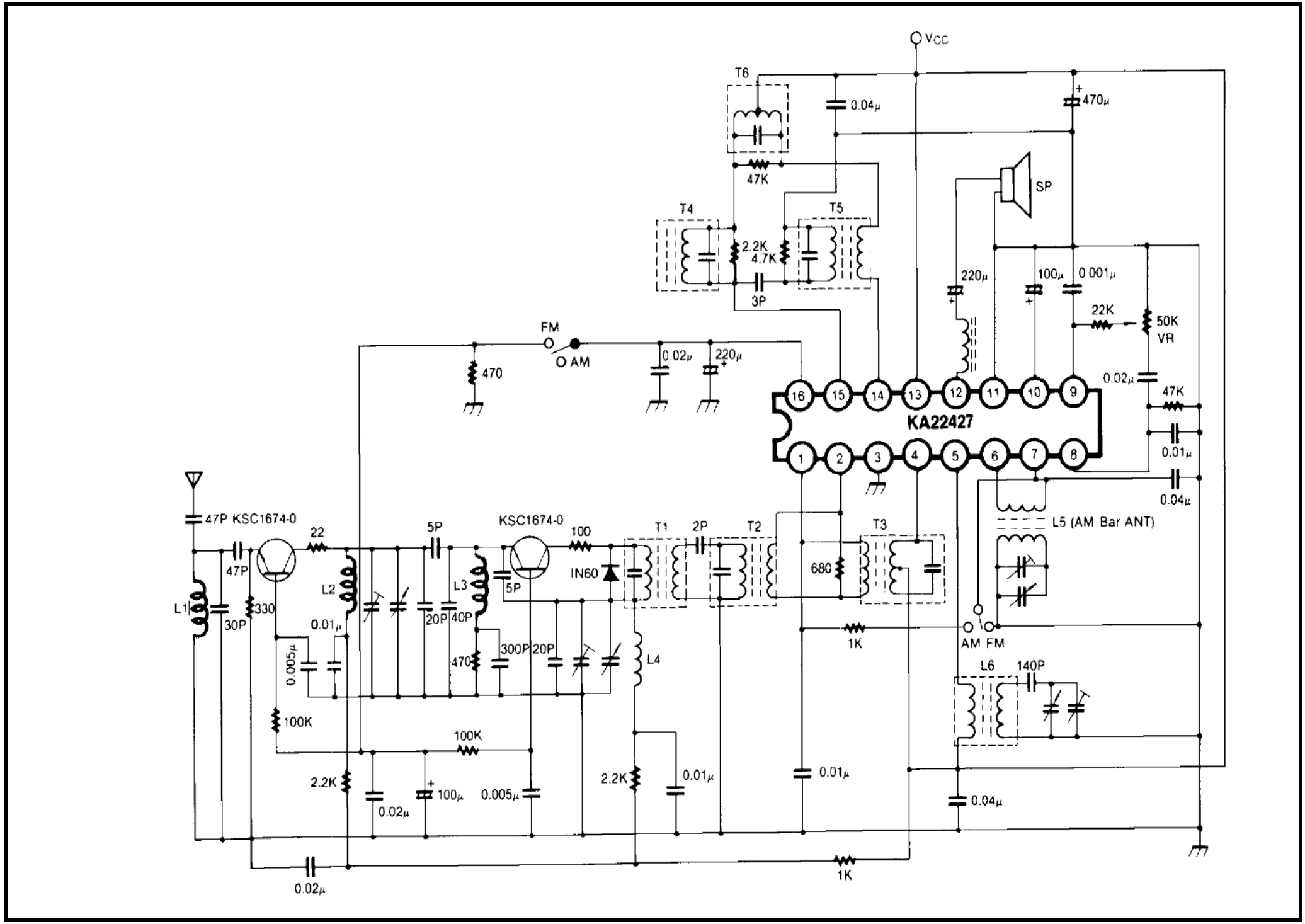


ÇEŞİTLİ DEVRE ŞEMALARI

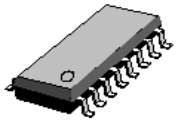




NOTE: 1. SW1: AM Position.

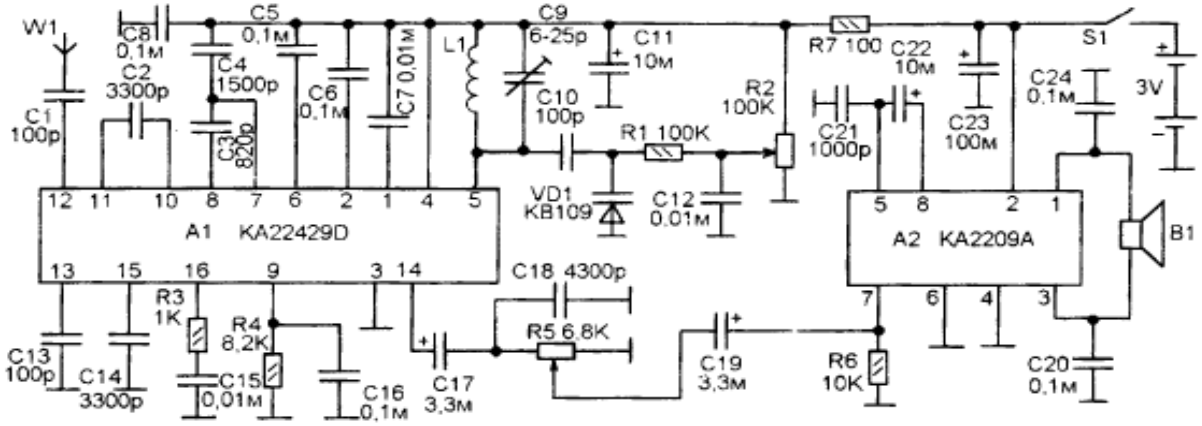

Vcc
T6
0.04μ
470μ
47K
SP
T4
T5
2.2K
4.7K
3P
220μ
100μ
0.001μ
22K
50K
VR
FM
AM
470
0.02μ
220μ
16
15
14
13
12
11
10
9
KA22427
1
2
3
4
5
6
7
8
0.02μ
47K
0.01μ
0.04μ
L5 (AM Bar ANT)
47P KSC1674-0
22
5P
KSC1674-0
100
T1
2P
T2
T3
47P
L2
L3
IN60
5P
680
L1
30P
330
0.01μ
20P
40P
300P
20P
470
L4
1K
AM FM
L6
140P
0.005μ
100K
100K
2.2K
0.02μ
100μ
0.005μ
2.2K
0.01μ
0.01μ
0.04μ
1K
0.02μ

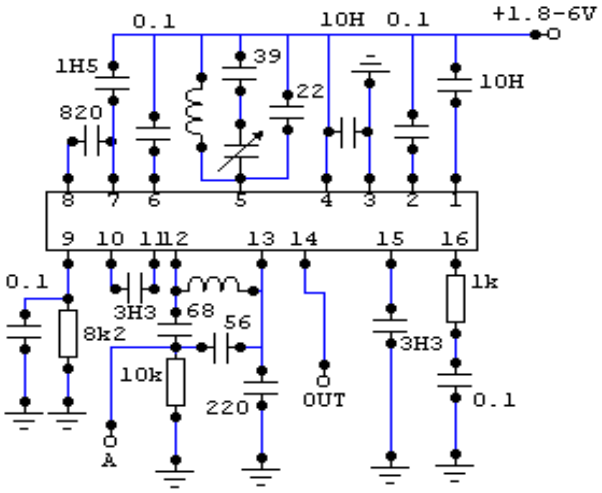
KA22429D

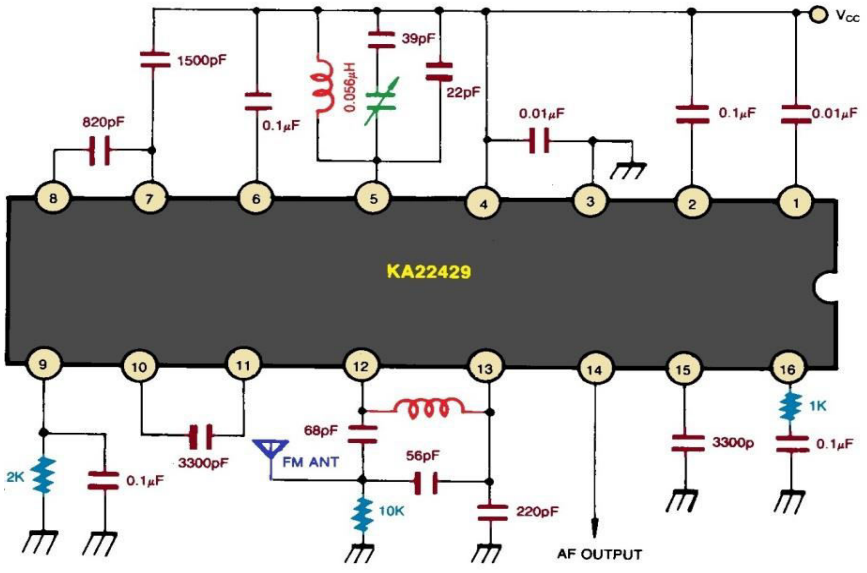
AM / FM RADYO	

İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



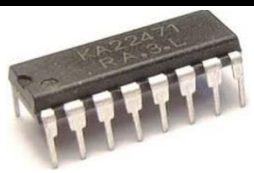




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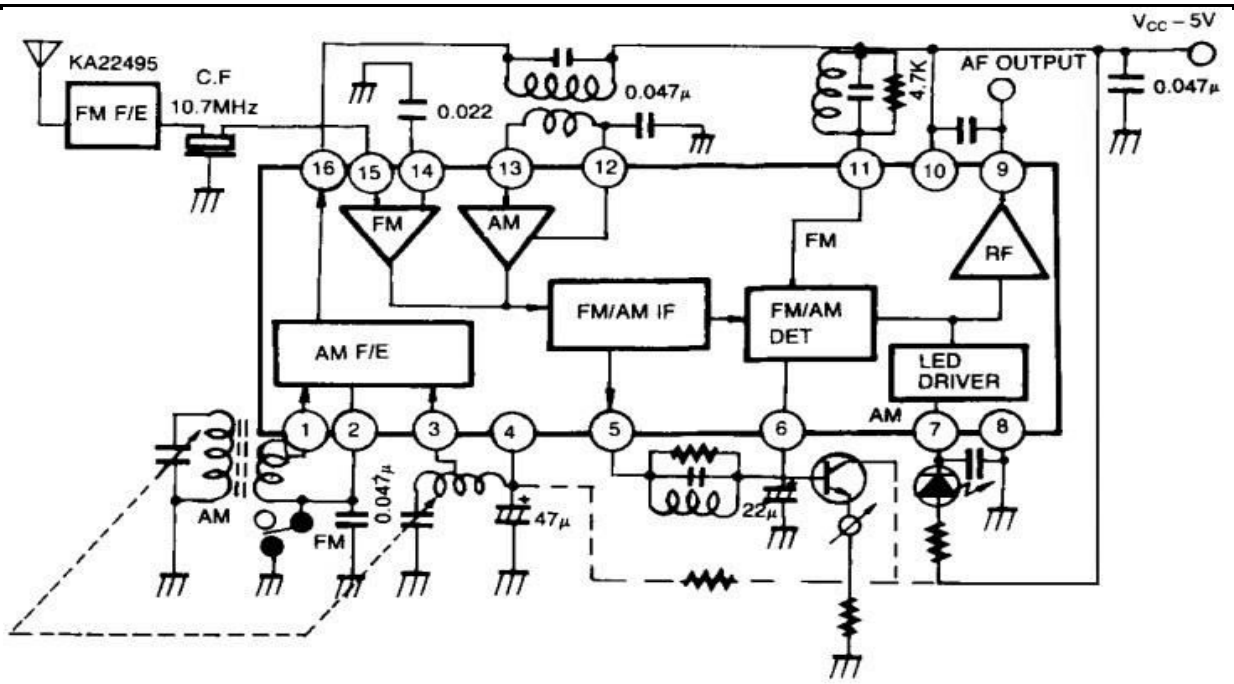
FM IF

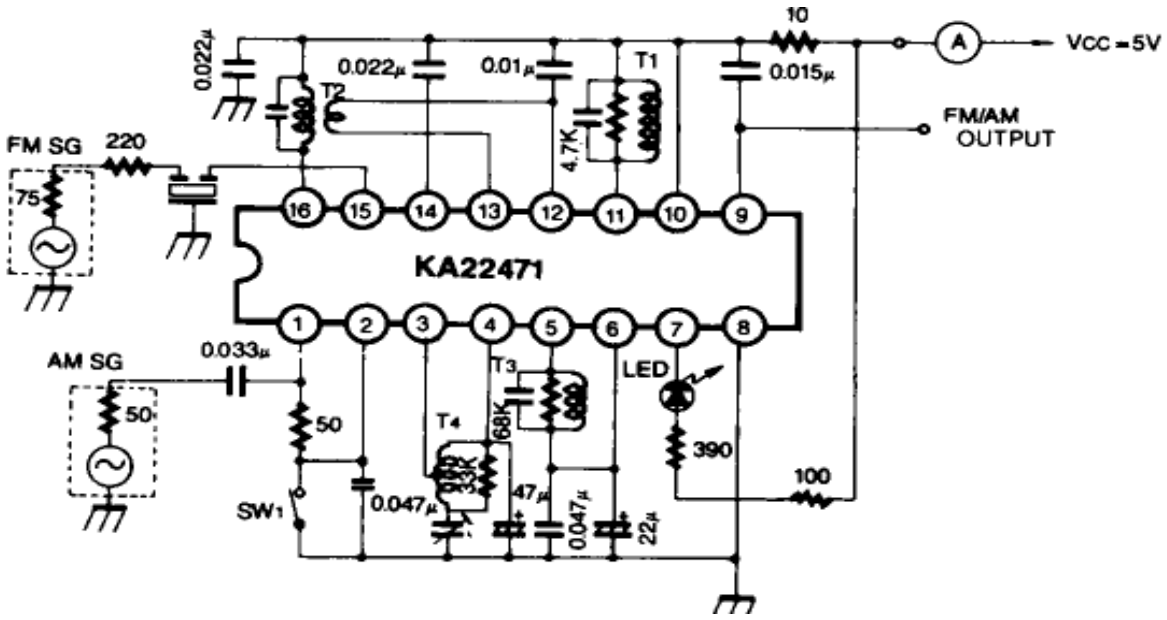
AM TUNER

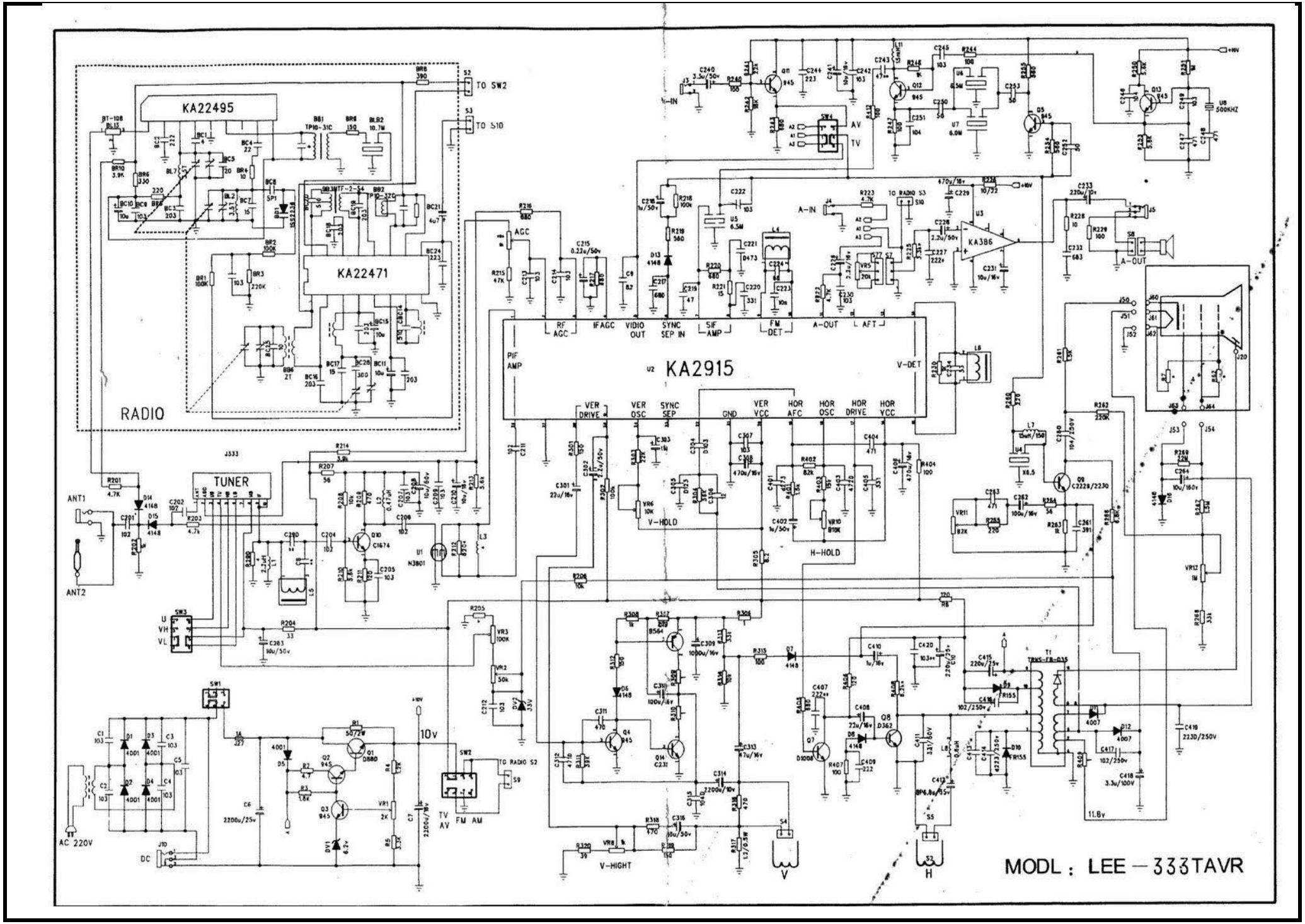


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI






KA22495
KA22471
KA2915
KA386
RADIO
TUNER
TO SW2
TO S10
AGC
RF AGC
IFAGC
VIDIO OUT
SYNC SEP IN
SIF AMP
FM DET
A-OUT
L AFT
PIF AMP
V-DET
VER DRIVE
VER OSC
VER SEP
GND
VER VCC
HOR AFC
HOR OSC
HOR DRIVE
HOR VCC
V-HOLD
H-HOLD
V-HIGHT
A-IN
A-OUT
AV
TV
ANT1
ANT2
AC 220V
DC
10v
11.8v
TV AV FM AM
TO RADIO S2
MODL : LEE-333TAVR

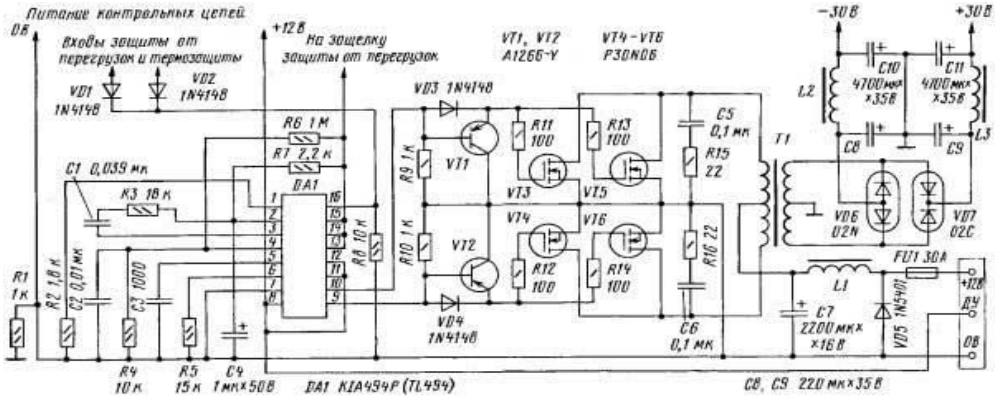
KIA494 / TL494

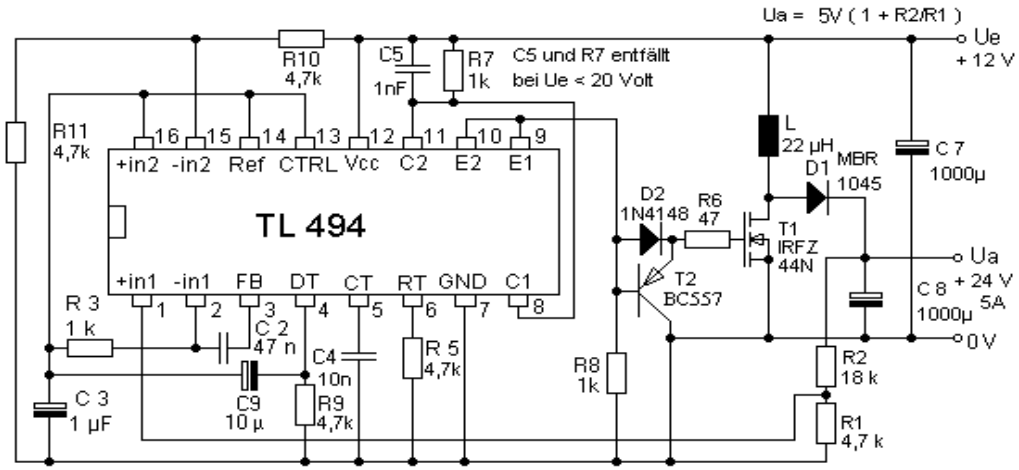
PWM KONTROLCÜSÜ

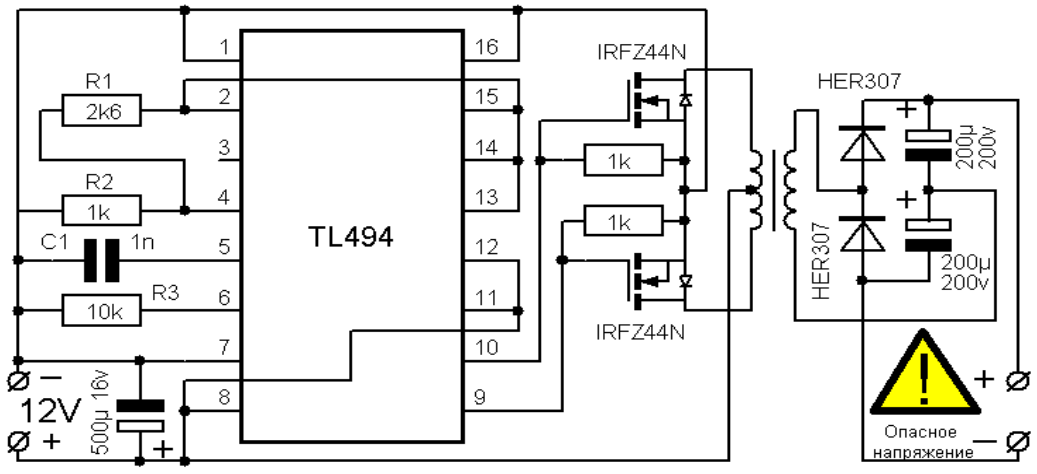


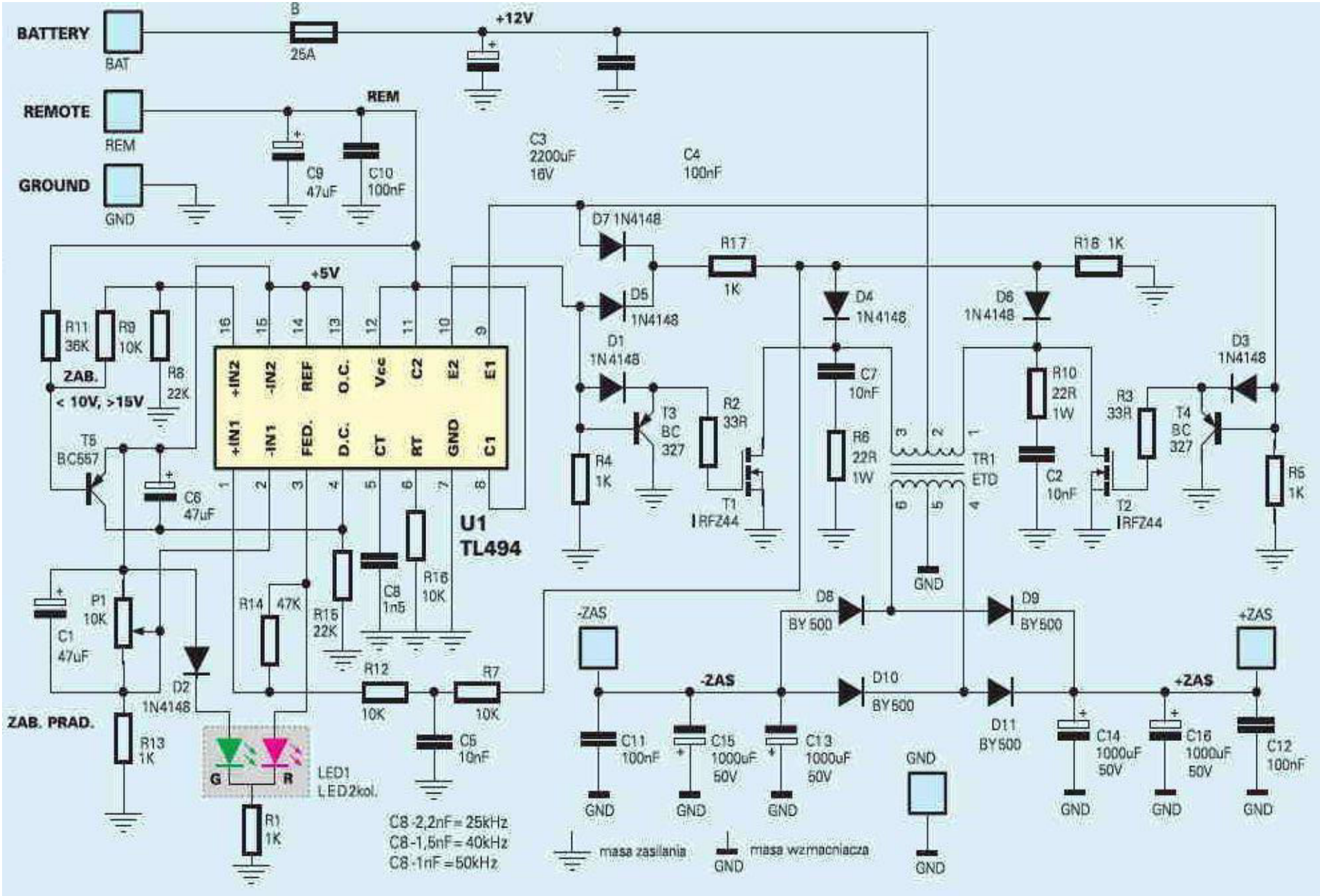
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ÇEŞİTLİ DEVRE ŞEMALARI







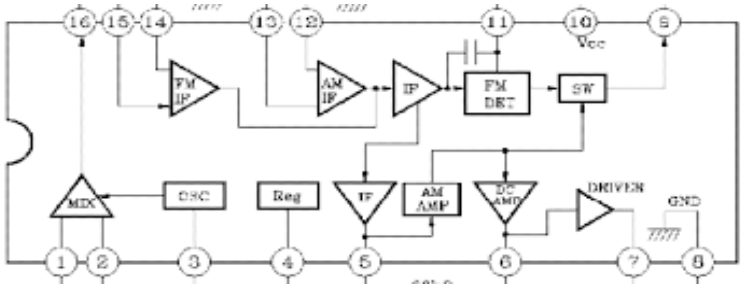

BATTERY
BAT
B
25A
+12V
REMOTE
REM
REM
GROUND
GND
C9
47uF
C10
100nF
C3
2200uF
16V
C4
100nF
D7 1N4148
R17
1K
R18 1K
D5
1N4148
D4
1N4148
D6
1N4148
D1
1N4148
D3
1N4148
+5V
R11
36K
R9
10K
R8
22K
ZAB.
< 10V, >15V
+IN2
-IN2
REF
O.C.
Vcc
C2
E2
E1
+IN1
-IN1
FED.
D.C.
CT
RT
GND
C1
U1
TL494
T5
BC557
C6
47uF
T3
BC
327
R2
33R
R4
1K
T1
IRFZ44
C7
10nF
R6
22R
1W
TR1
ETD
R10
22R
1W
C2
10nF
R3
33R
T2
IRFZ44
T4
BC
327
R5
1K
GND
P1
10K
C1
47uF
R14
47K
R15
22K
C8
1n5
R16
10K
D8
BY500
D9
BY500
-ZAS
+ZAS
D2
1N4148
R12
10K
R7
10K
-ZAS
D10
BY500
+ZAS
ZAB. PRAD.
R13
1K
C11
100nF
C15
1000uF
50V
C13
1000uF
50V
D11
BY500
C14
1000uF
50V
C16
1000uF
50V
C12
100nF
G
R
LED1
LED2kol.
C5
10nF
R1
1K
GND
GND
GND
GND
GND
GND
GND
C8 -2,2nF = 25kHz
C8 -1,5nF = 40kHz
C8 -1nF = 50kHz
masa zasilania
masa wzmacniacza

KIA6040

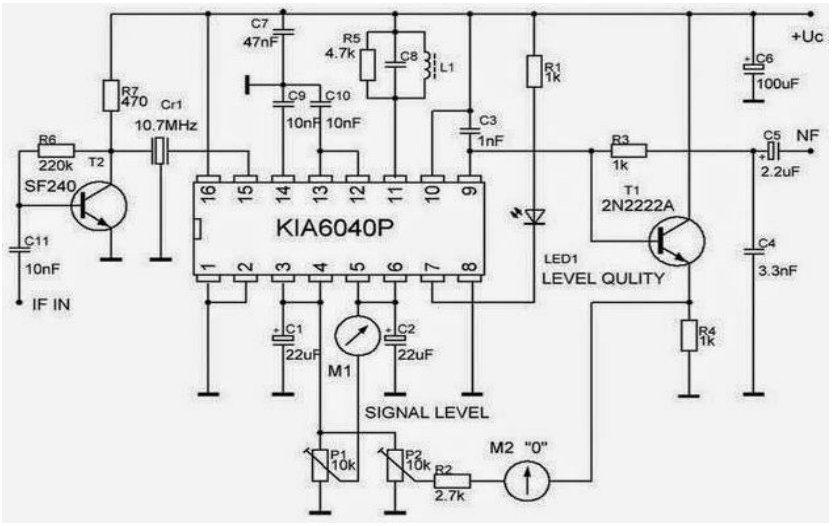
FM IF AMPLİFİKATÖR VE DİSKRİMİNATÖR

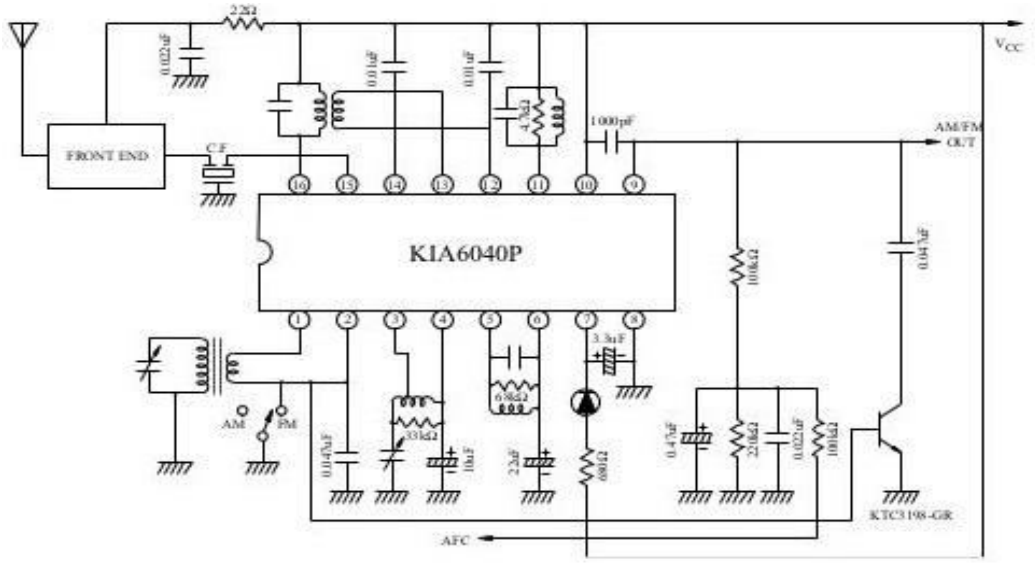


İÇ YAPISI



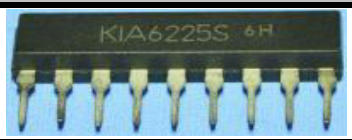
ÇEŞİTLİ DEVRE ŞEMALARI





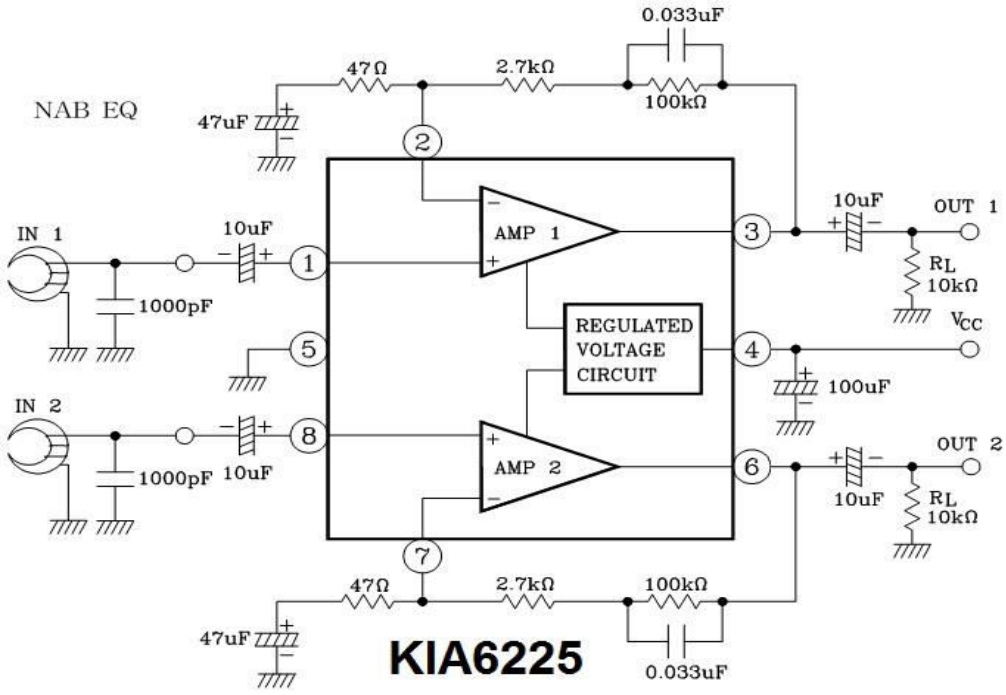
KIA6225S

STEREO
TEYP PREAMPLİFİKATÖRÜ



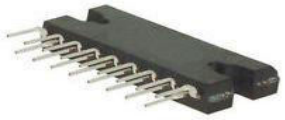
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ÇEŞİTLİ DEVRE ŞEMALARI



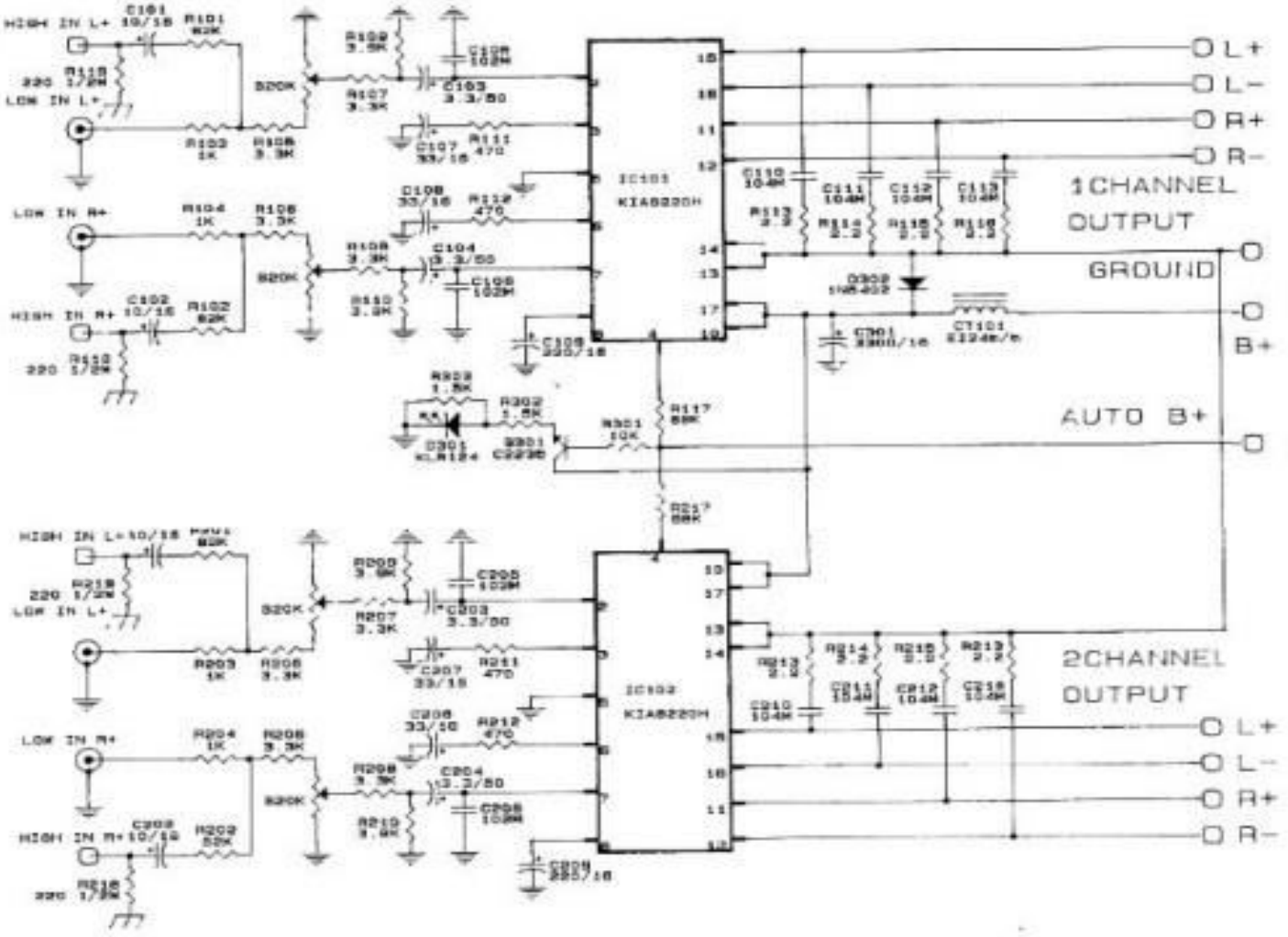
KIA6226H

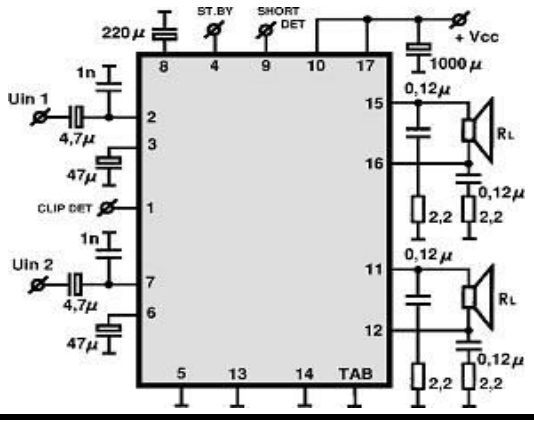
26 WATT
STEREO AMPLİFİKATÖR



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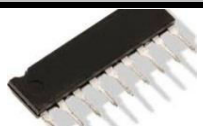
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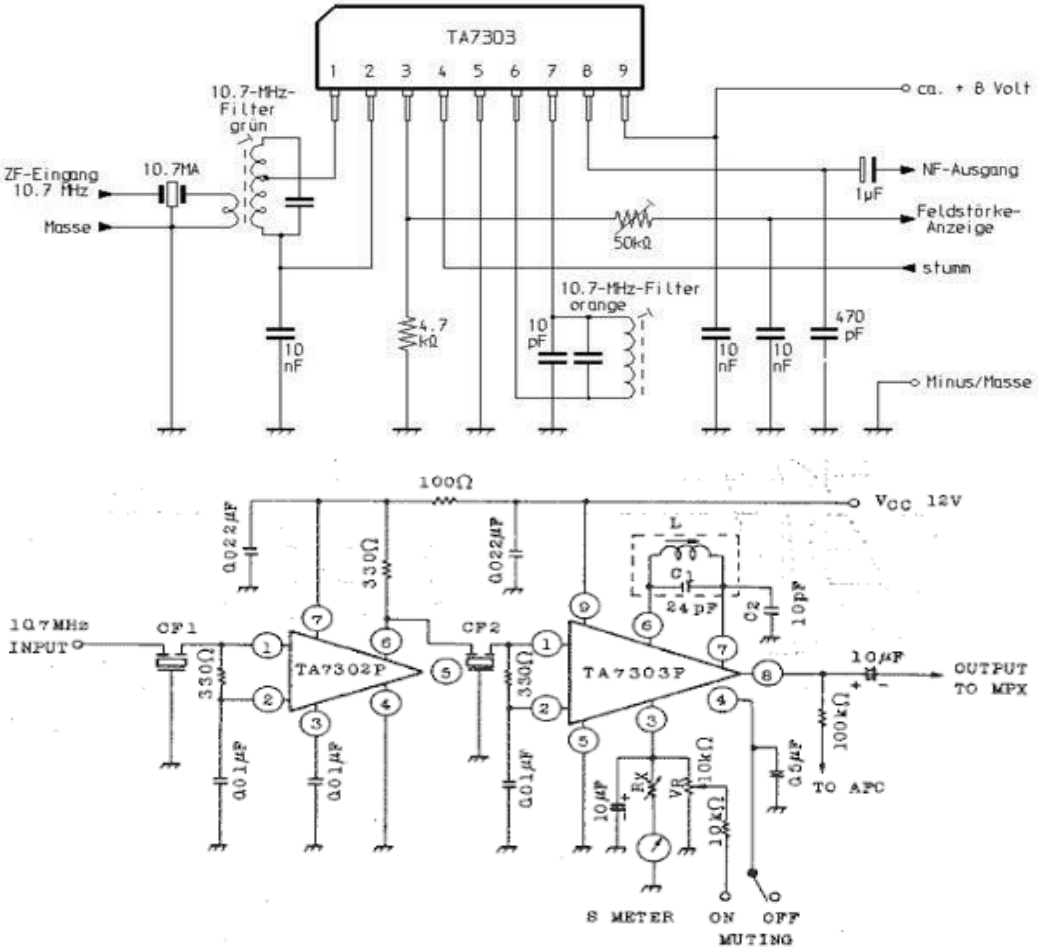
KIA7303 / TA7303

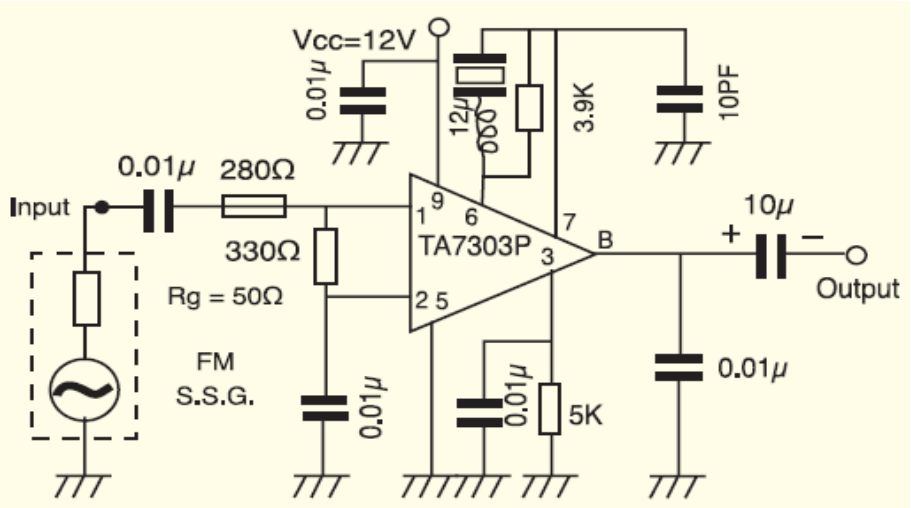
FM IF AMPLİFİKATÖR VE DİSKRİMİNATÖR



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ÇEŞİTLİ DEVRE ŞEMALARI





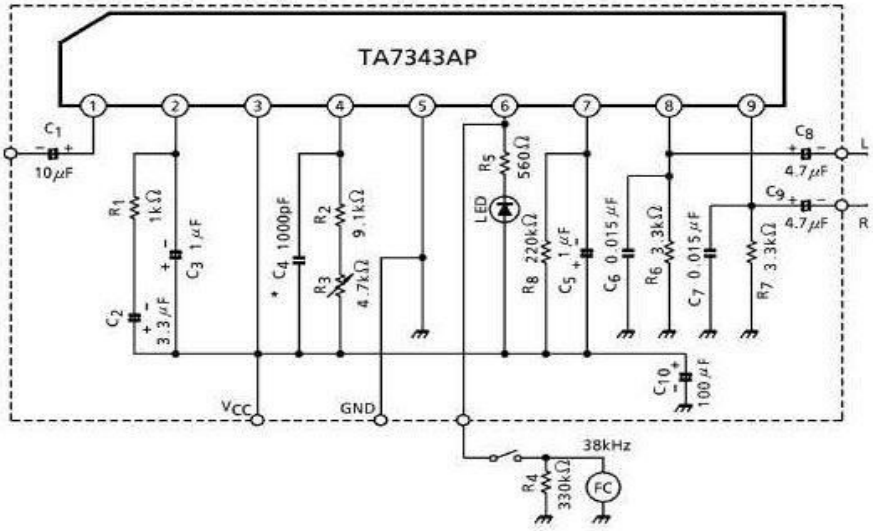
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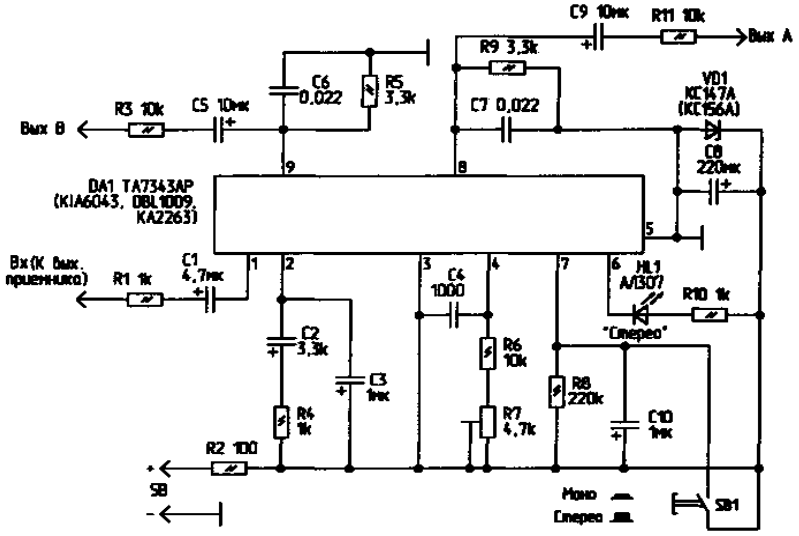
FM PLL
STEREO DEKODER

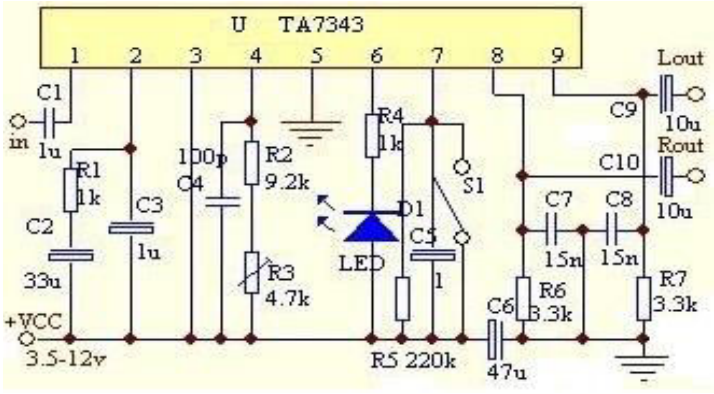


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ÇEŞİTLİ DEVRE ŞEMALARI







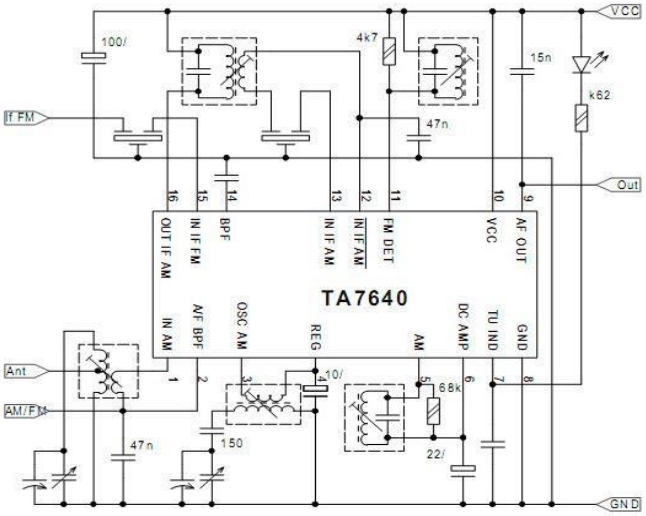
KIA7640 / TA7640

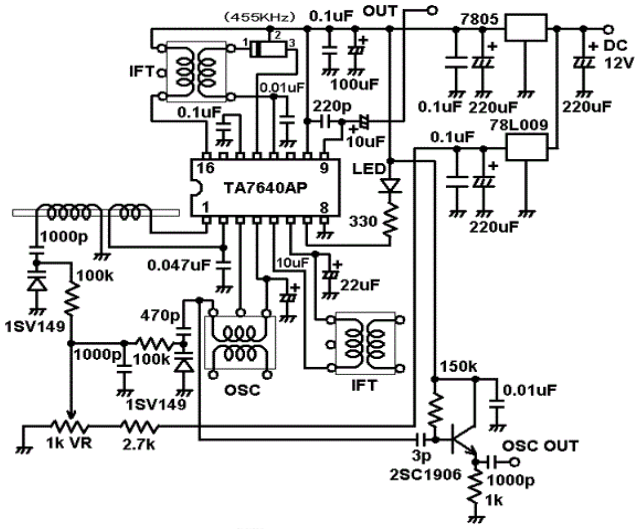
IF AMPLİFİKATÖR VE DEDEKTÖR

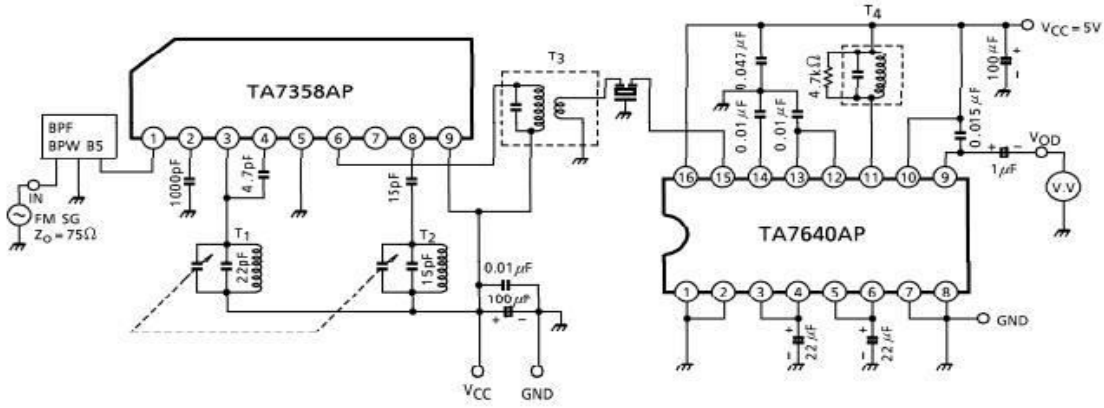


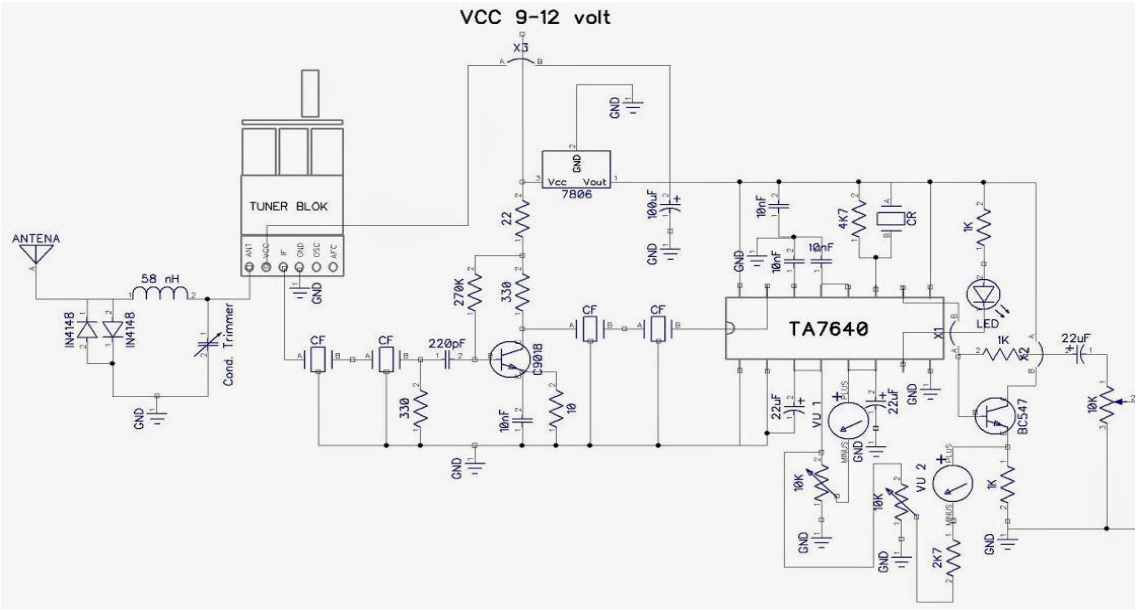
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI









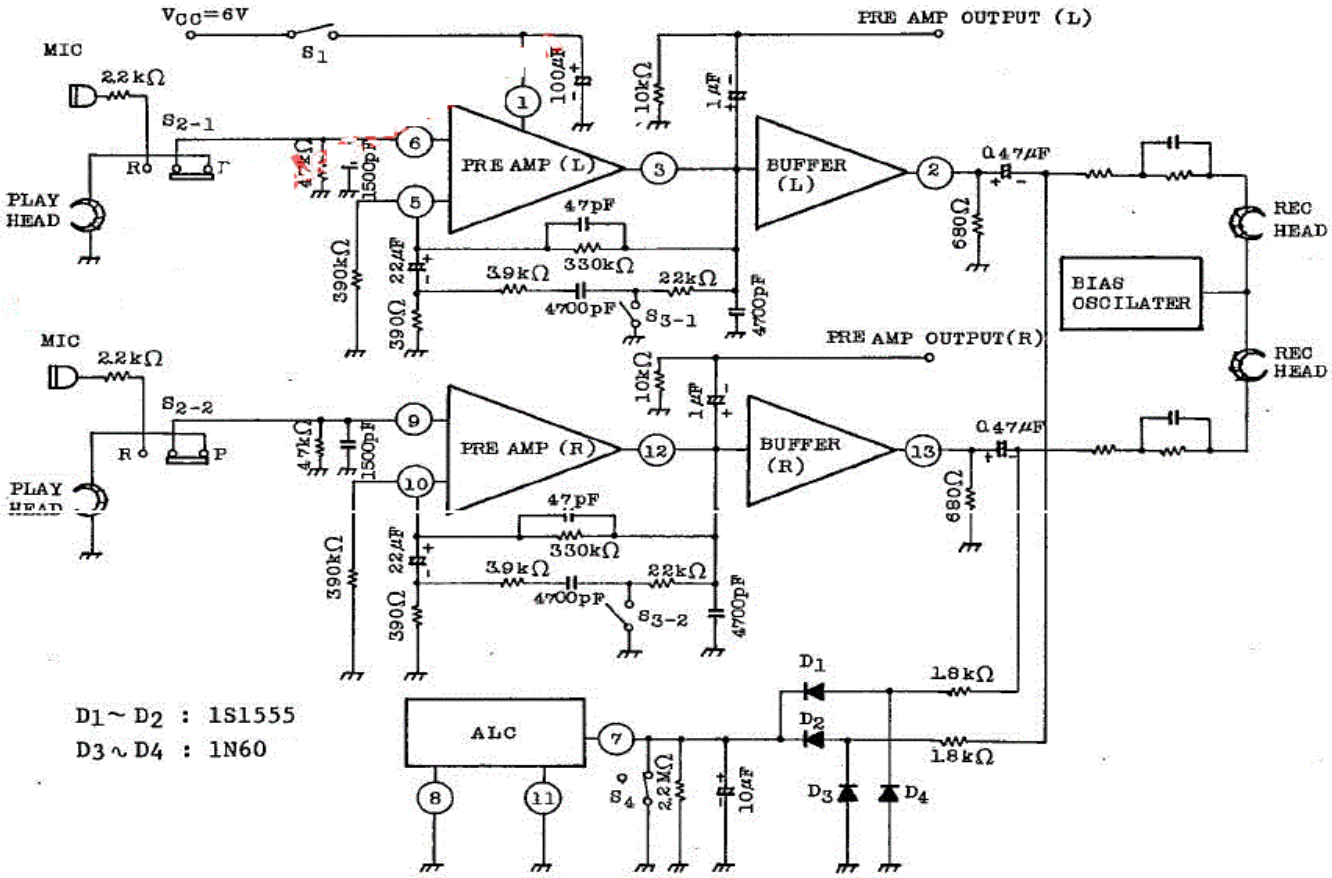
KIA7658P / TA7658P

TEYP KAYIT İÇİN
STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



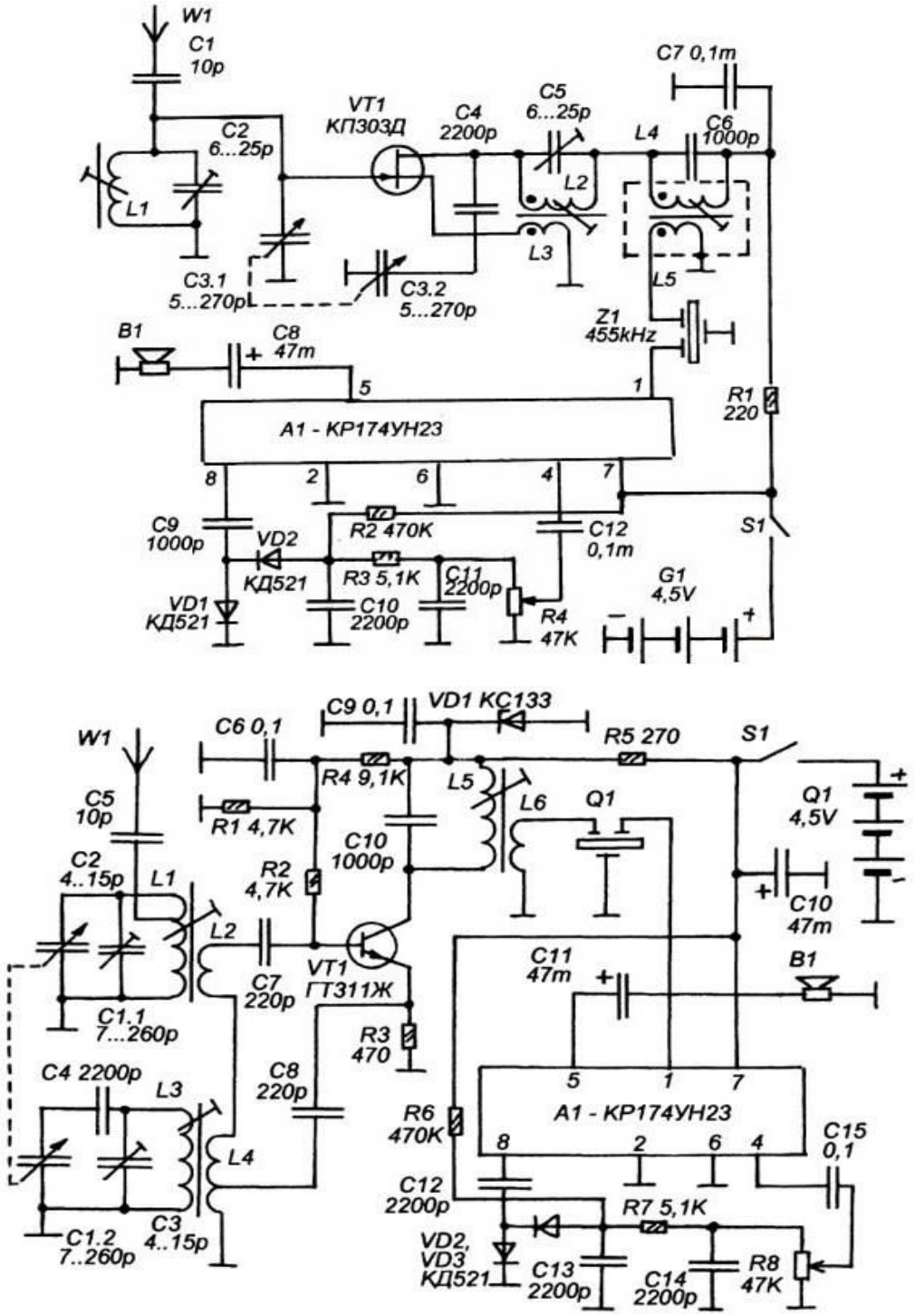
KP174YH23

AM RADYO	

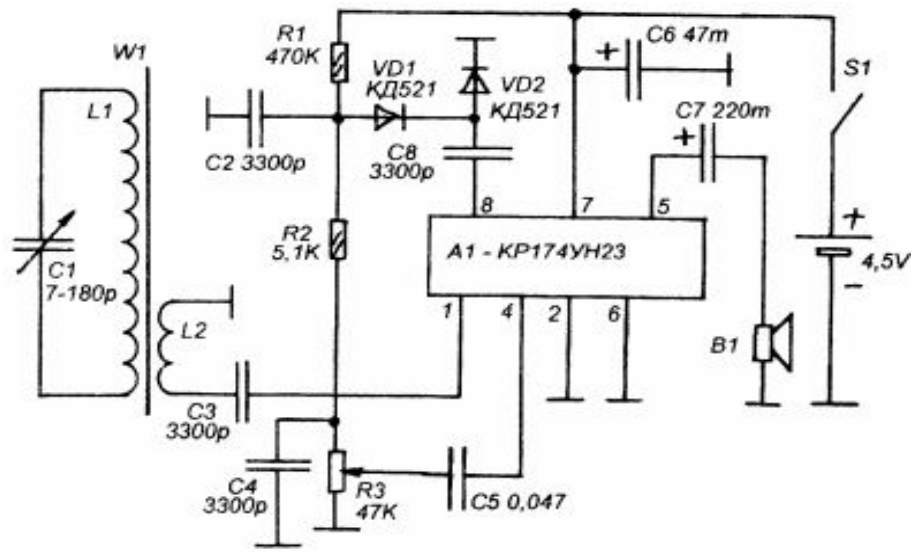
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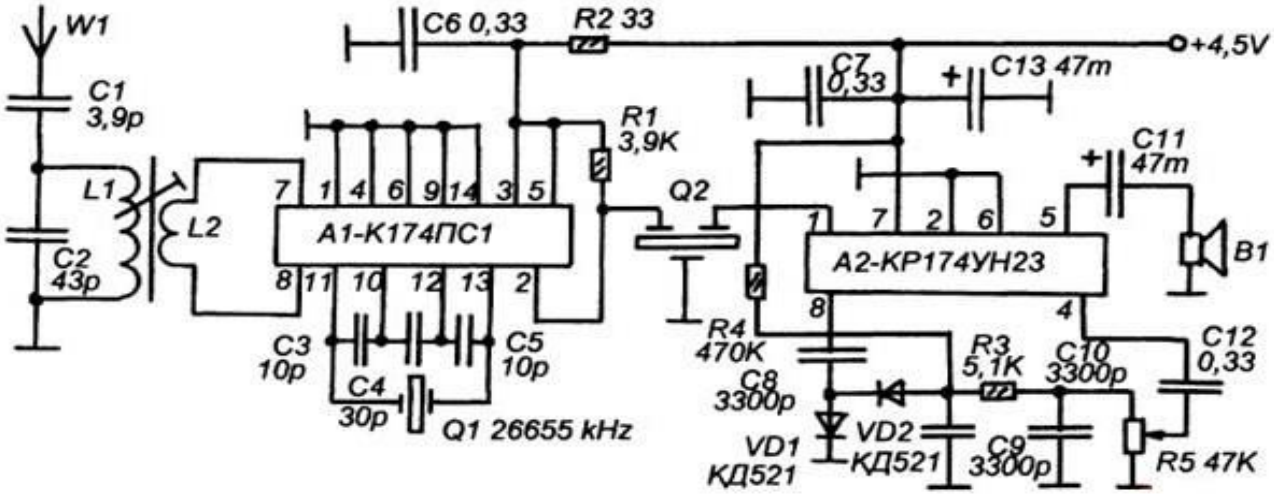
AM KISA DALGA RADYO



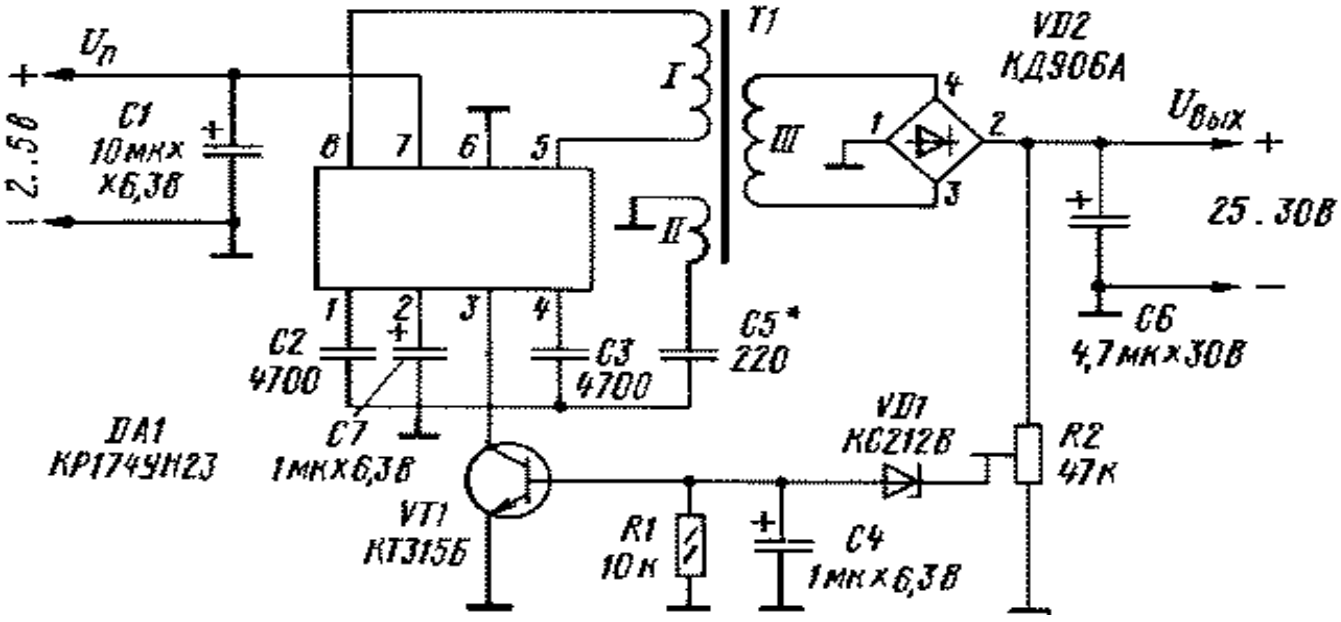
AM KISA DALGA RADYO



AM 27 MHz CB ALICI



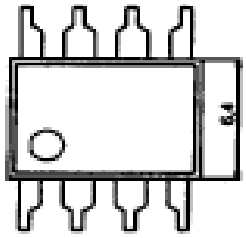
KONVERTÖR



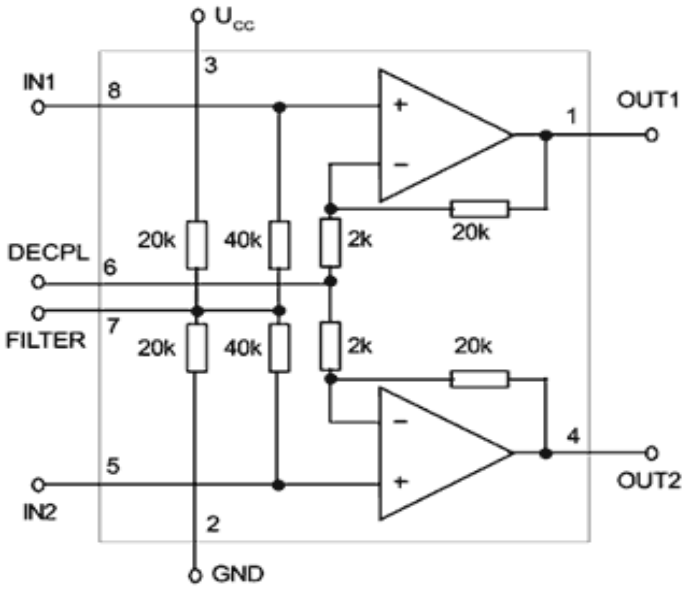
KP174YH31

DÜŞÜK VOLTAJLI 0.440 WATT

STEREO AMPLİFİKATÖR

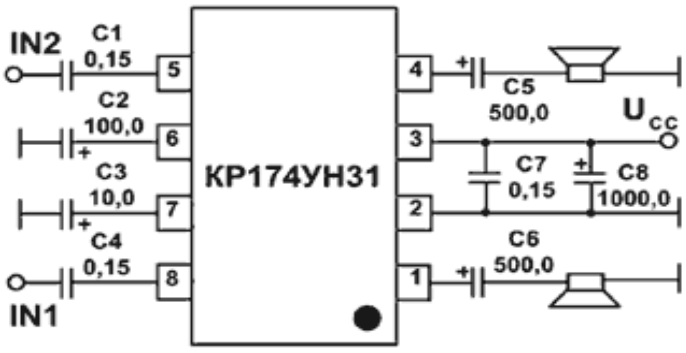


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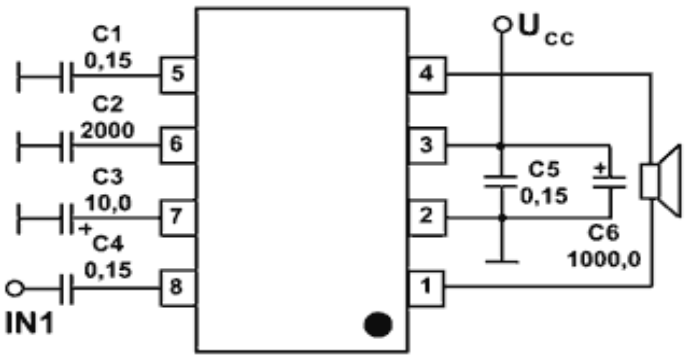


ÇEŞİTLİ DEVRE ŞEMALARI

STEREO 0.440 WATT AMPLİFİKATÖR



MONO 1.2 WATT AMPLİFİKATÖR



KS5313 SERİSİ

TEK MELODİLİ

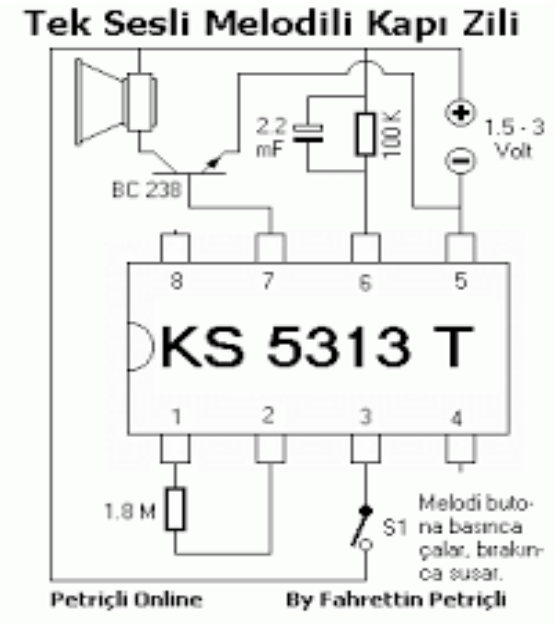
KAPI ZİLİ

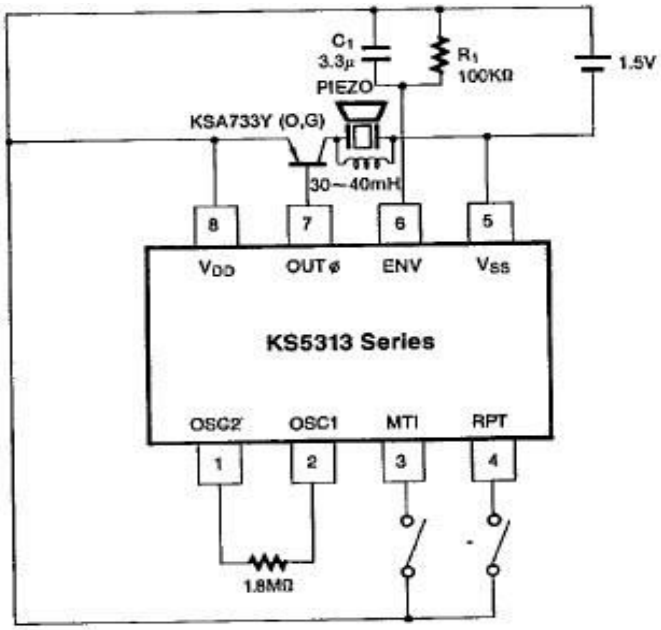


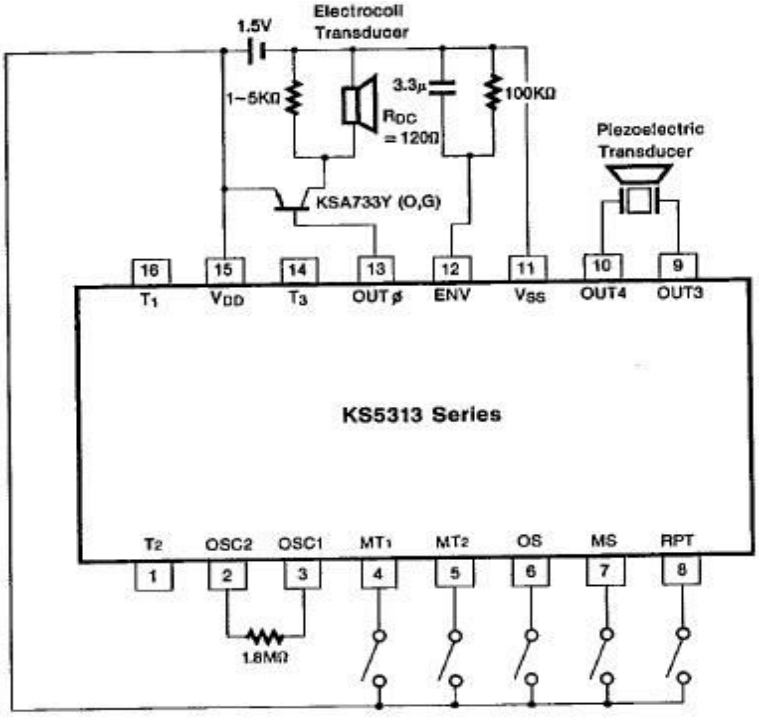
İÇ YAPISI

KS5313N: MINUET (BACH)
KS5313Q: Home Sweet Home
KS5313S: Big Ben
KS5313T: For Elise

ÇEŞİTLİ DEVRE ŞEMALARI

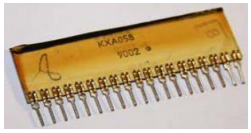


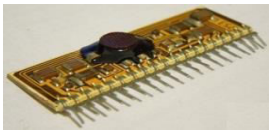




KXA058

FM
RADYO

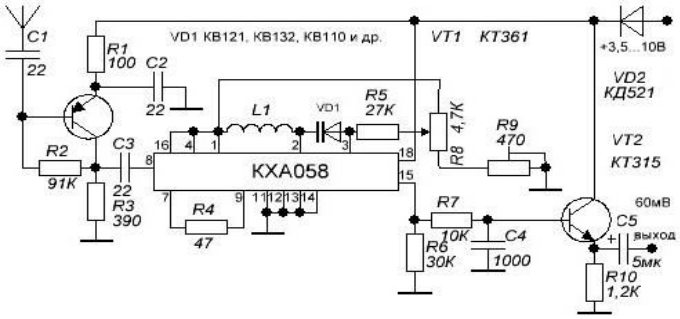




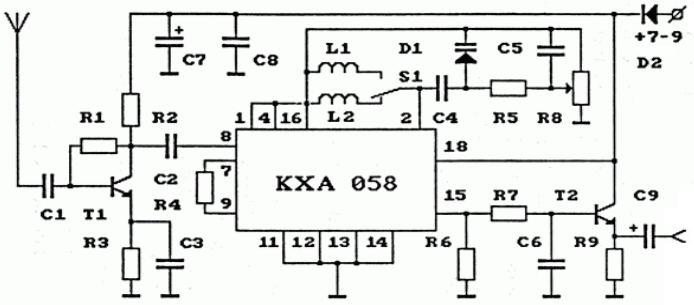
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

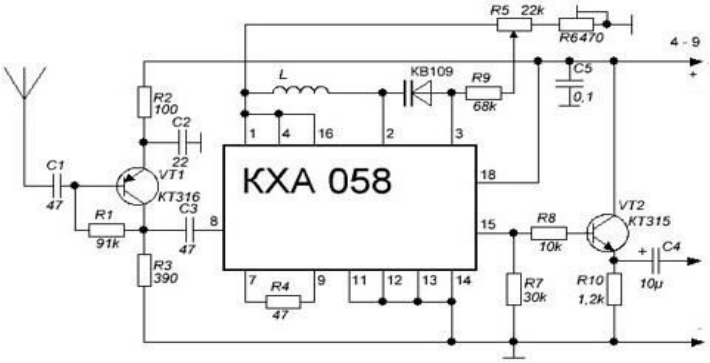
FM RADYO



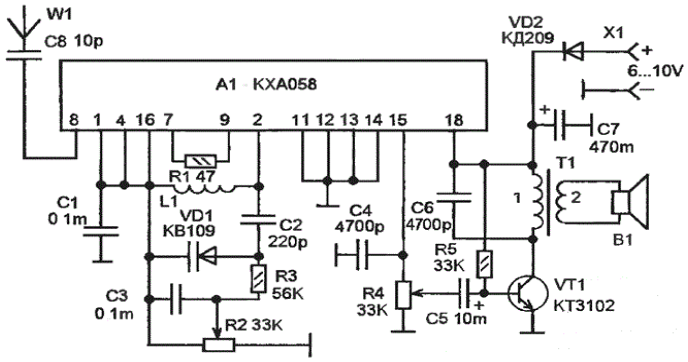
FM RADYO



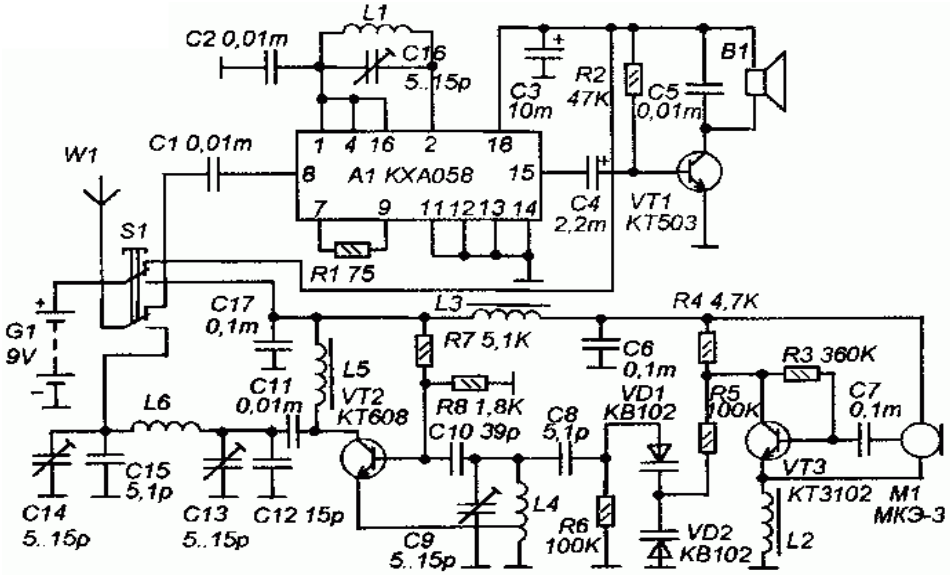
FM RADYO



FM RADYO



FM ALICI / VERİCİ (TELSİZ)



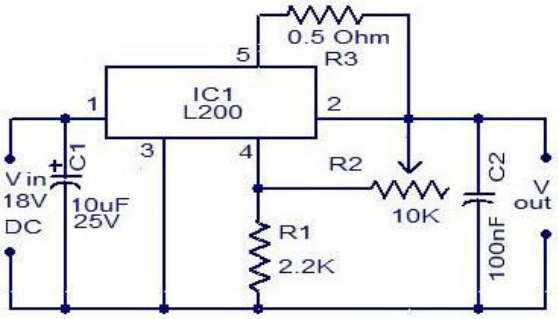
L200

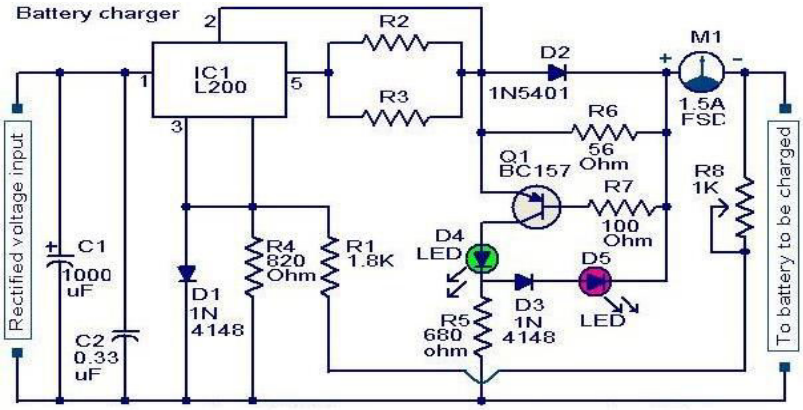
REGÜLATÖR

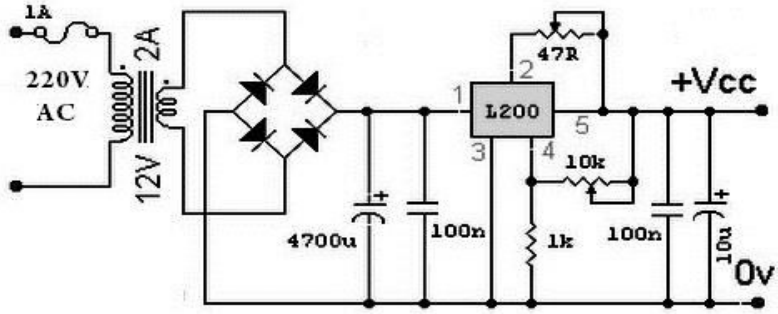


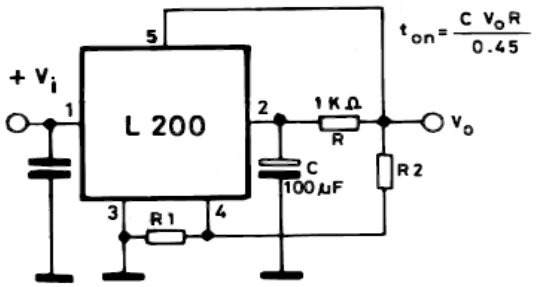
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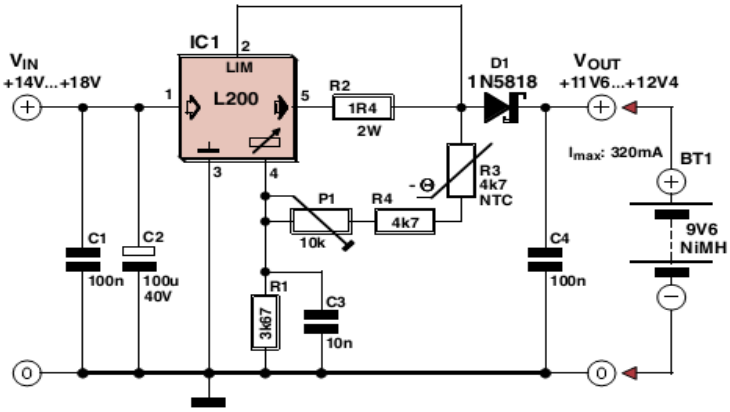
ÇEŞİTLİ DEVRE ŞEMALARI

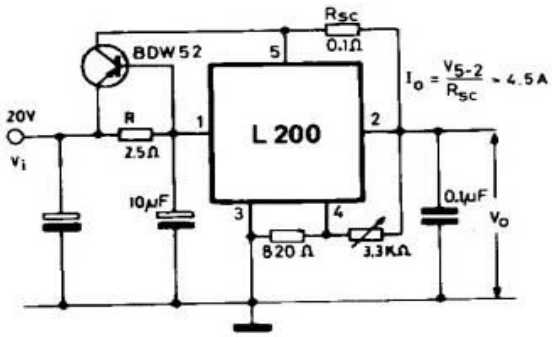


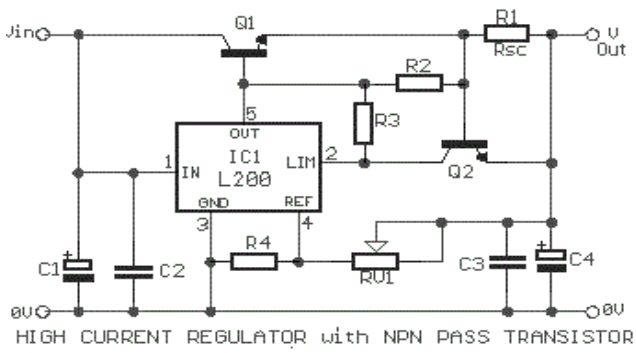




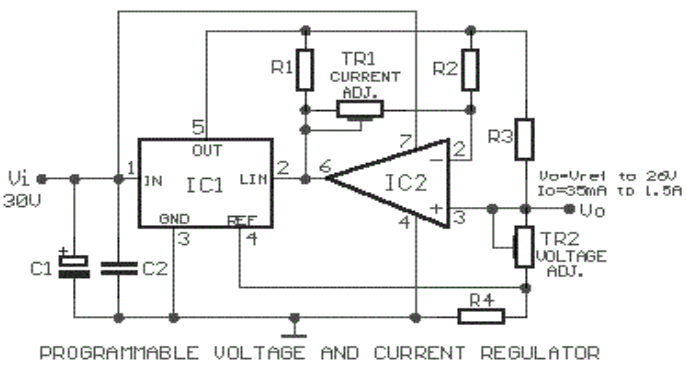








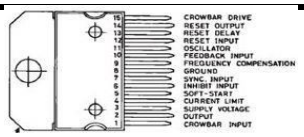
HIGH CURRENT REGULATOR with NPN PASS TRANSISTOR



PROGRAMMABLE VOLTAGE AND CURRENT REGULATOR

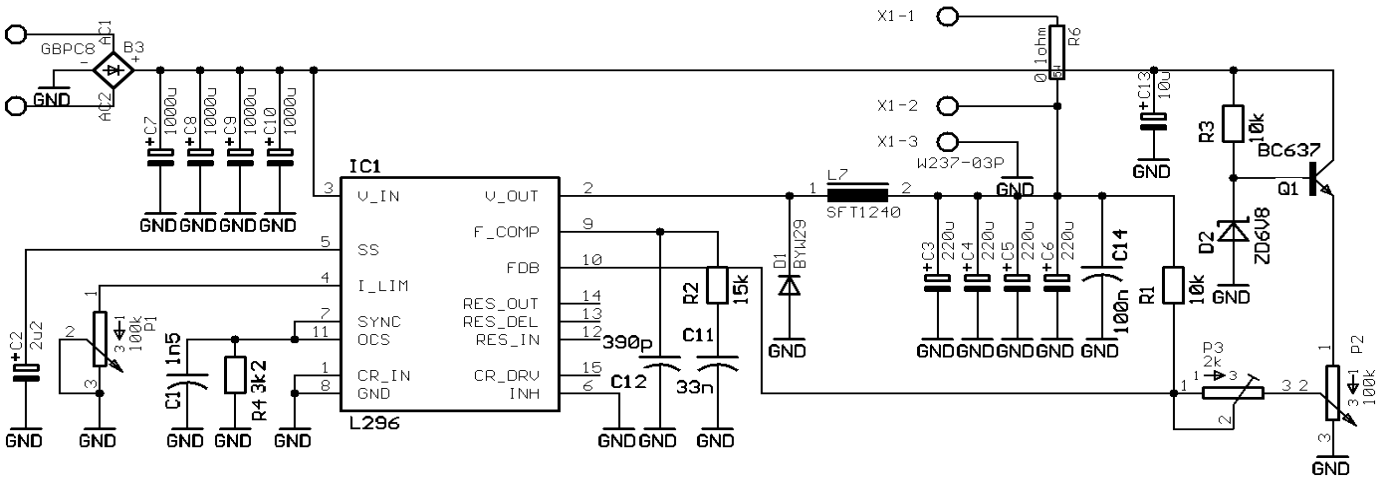
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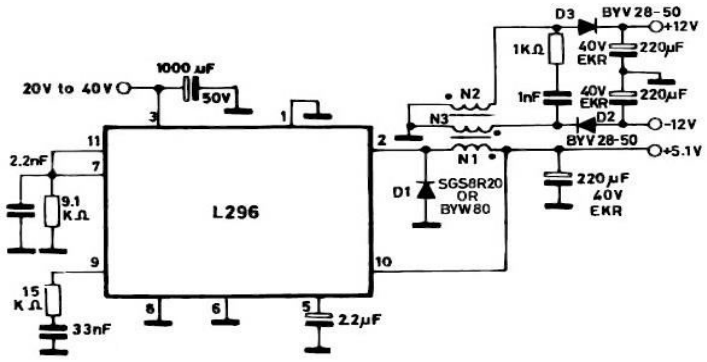
REGÜLATÖR

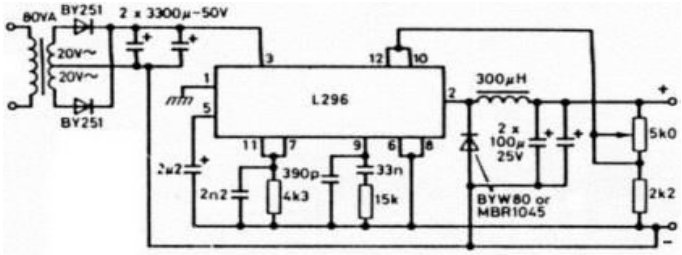


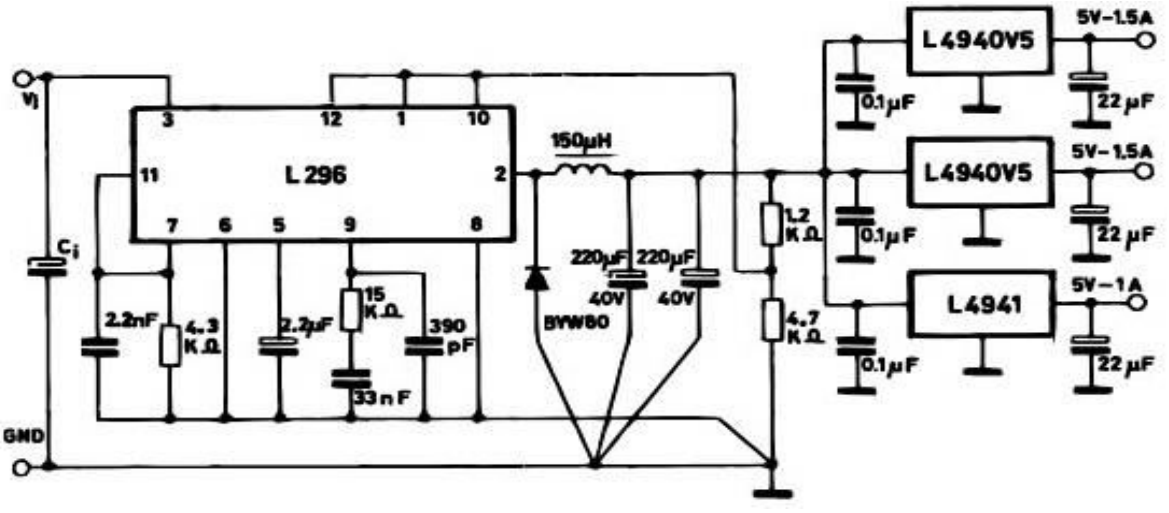
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





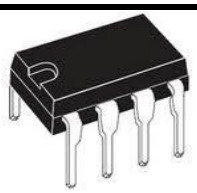




L6569

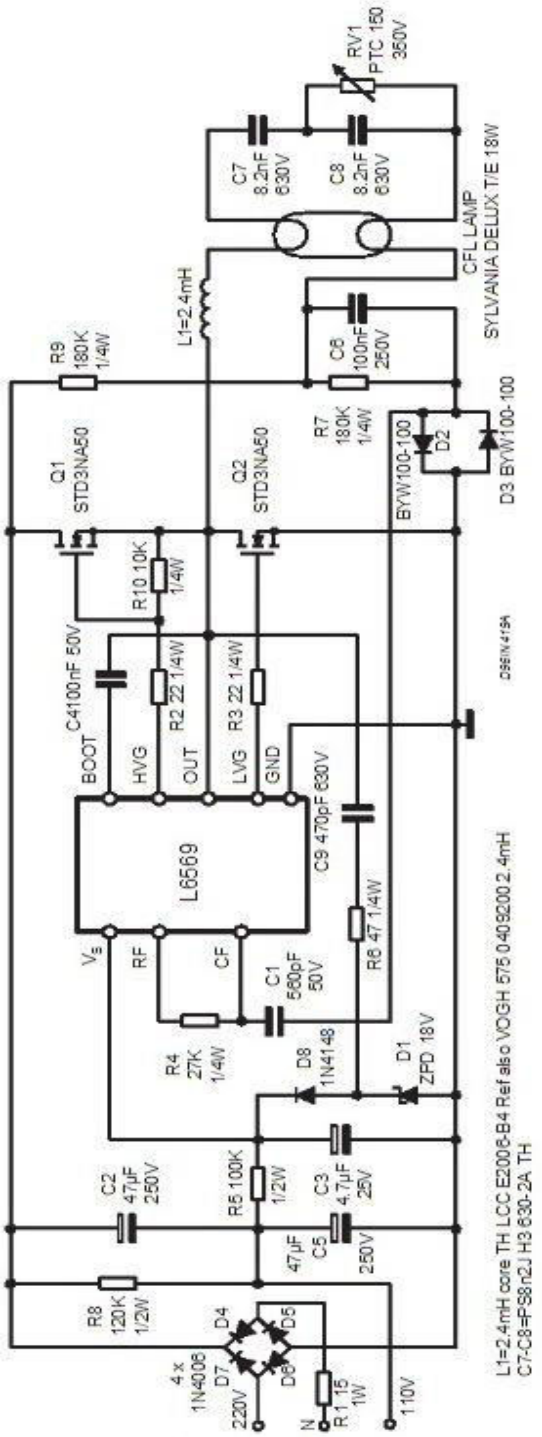
18 WATT

ELEKTRONİK BALAST



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

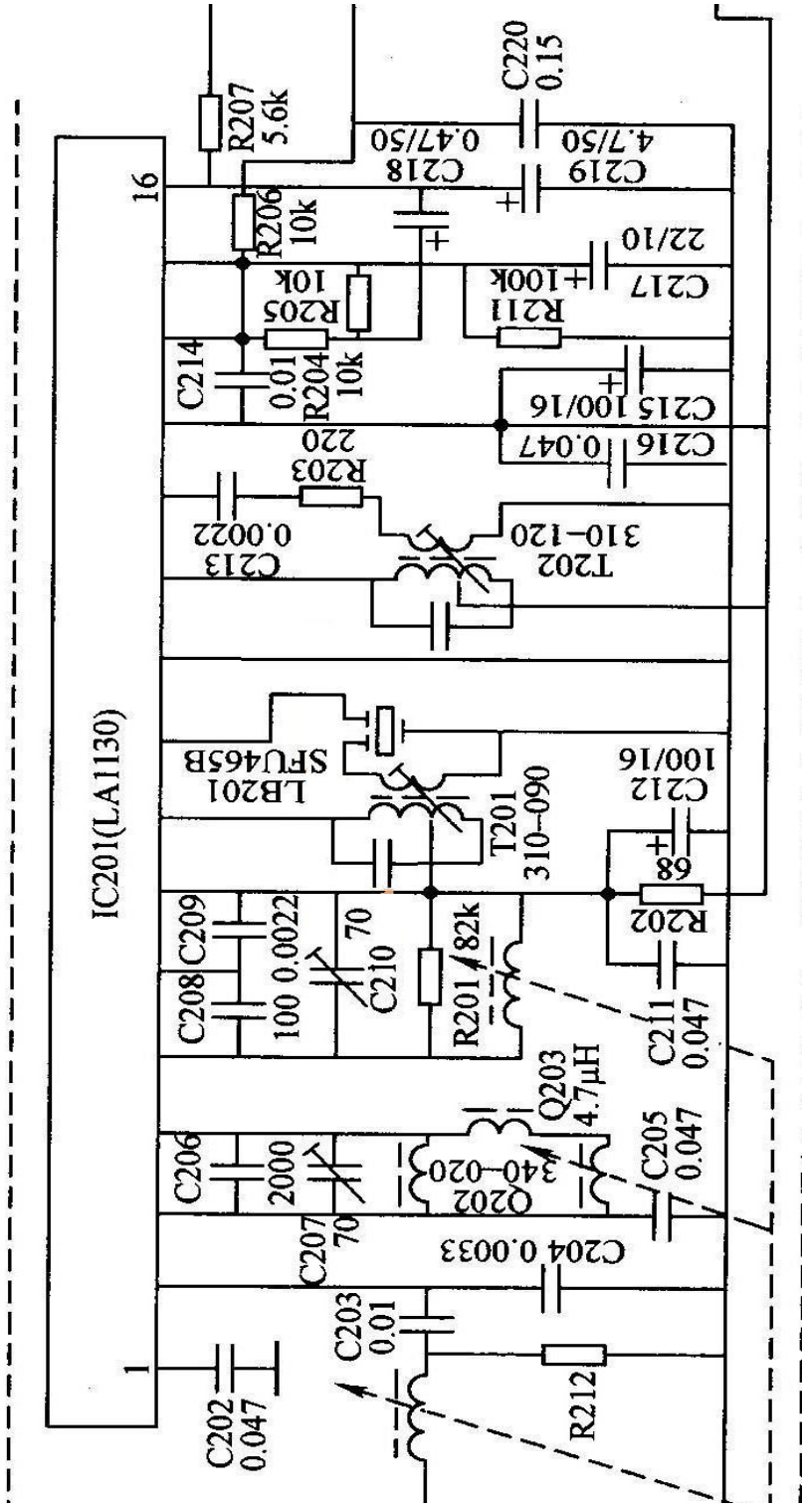


LA1130

AM TUNER	

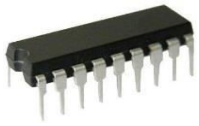
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



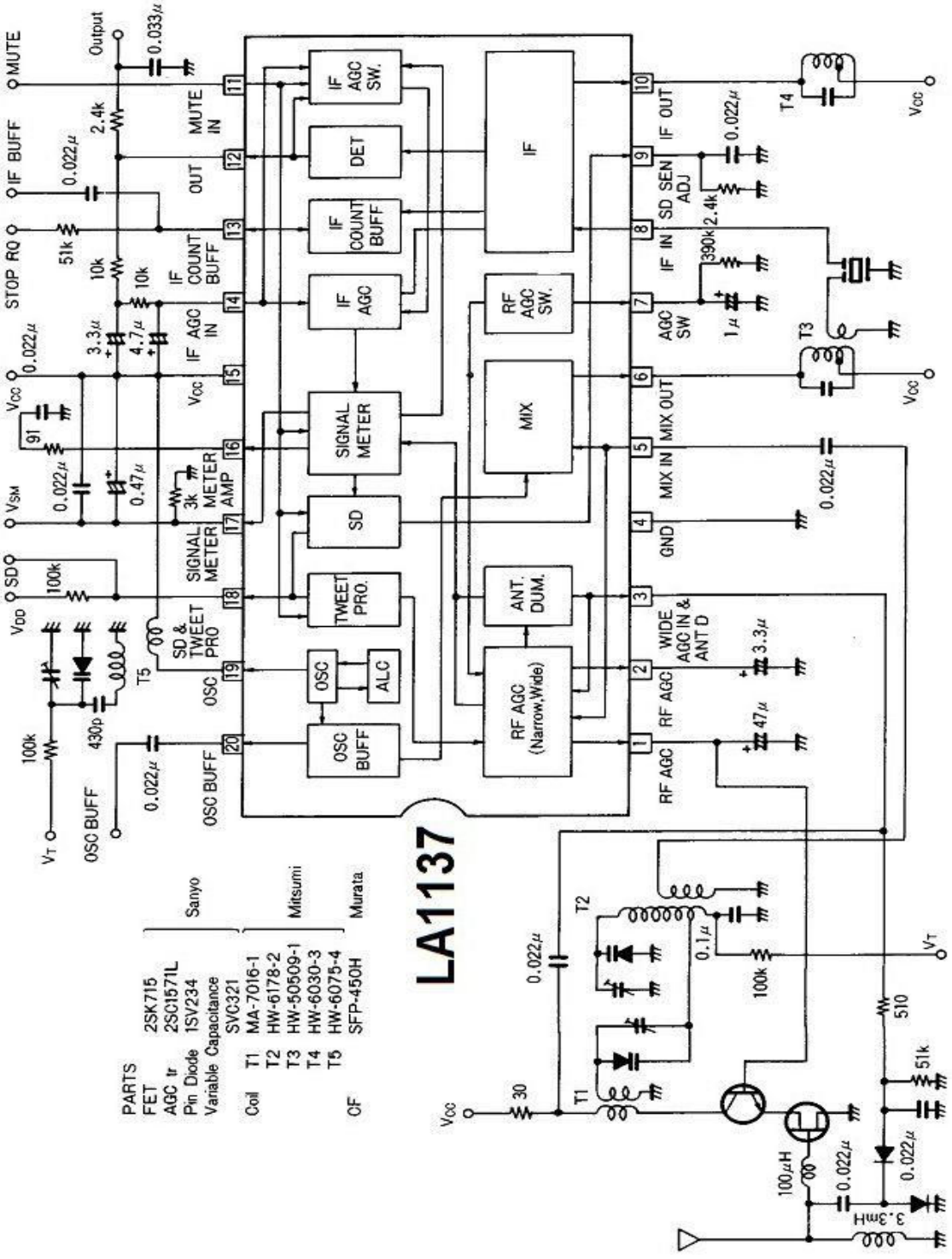
LA1137

AM
TUNER



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



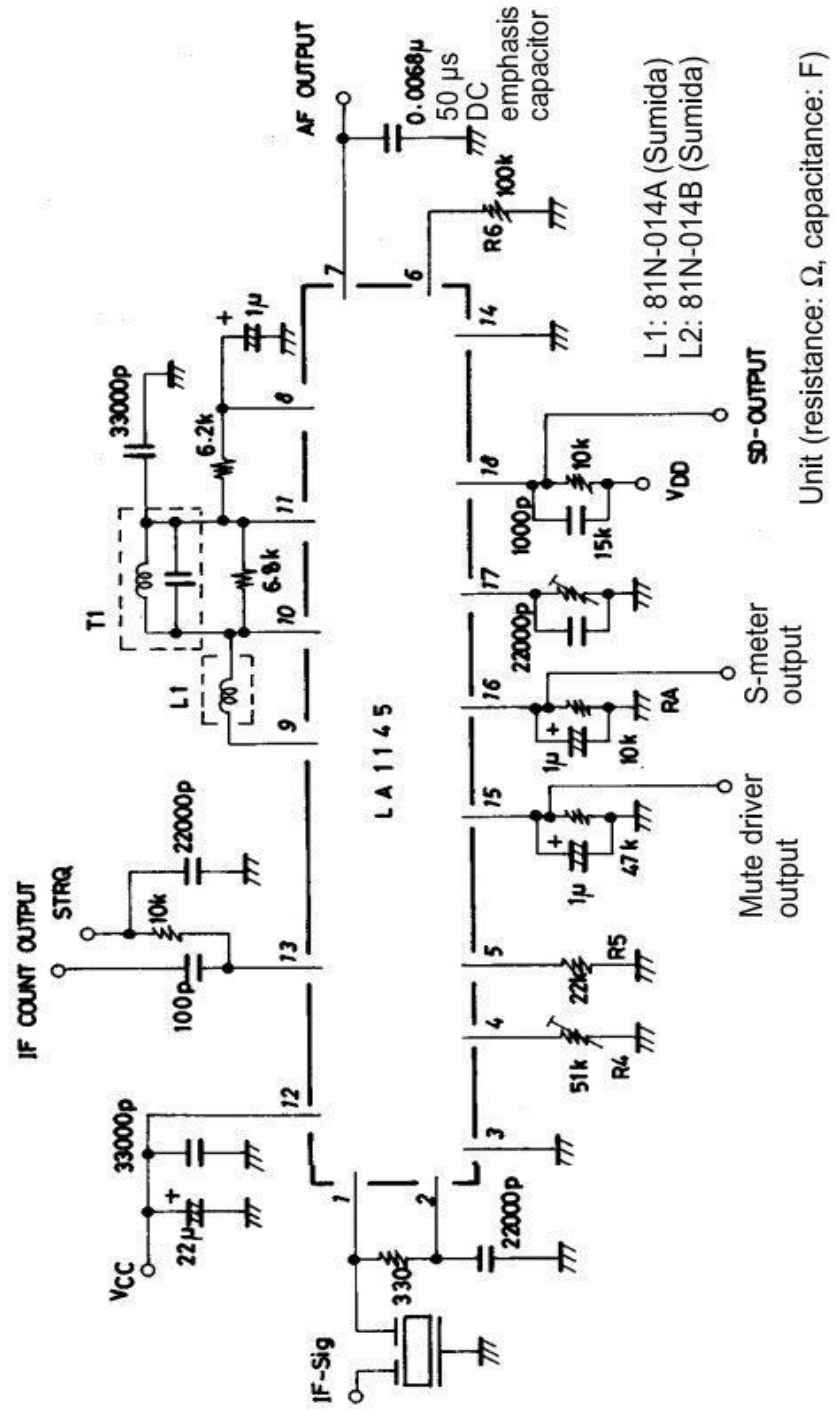
LA1145

IF AMPLİFİKATÖRÜ
VE DEDEKTÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

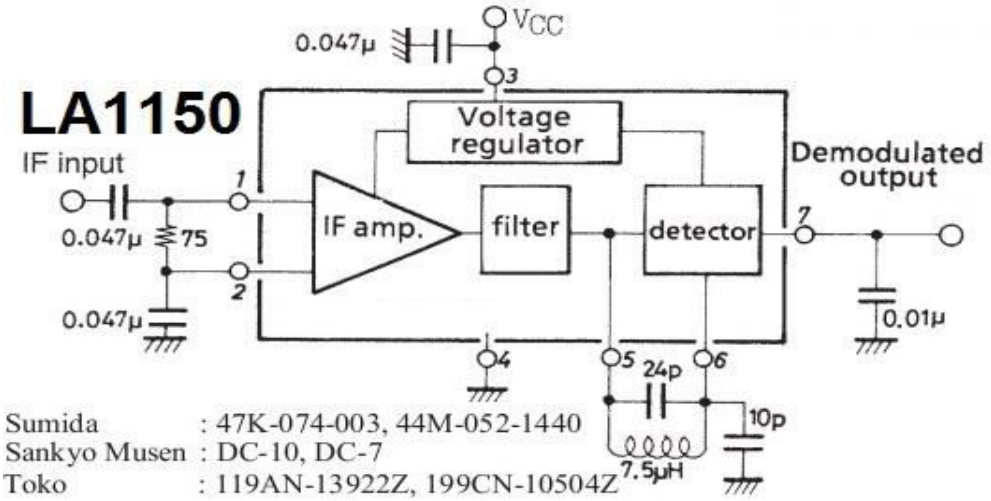


LA1150

FM IF AMPLİFİKATÖR

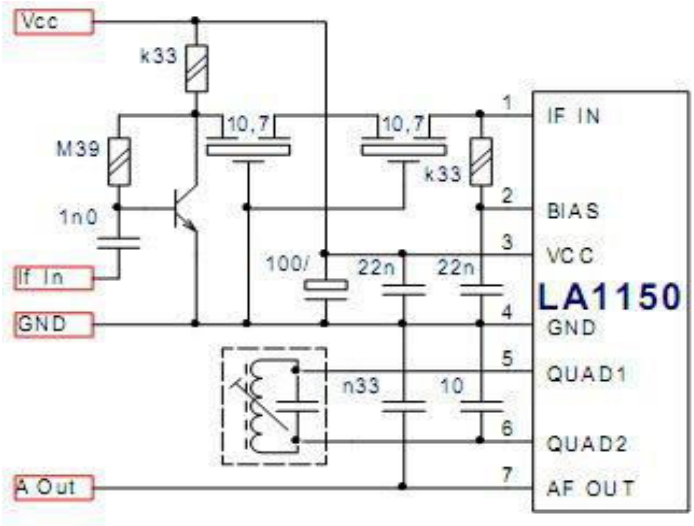


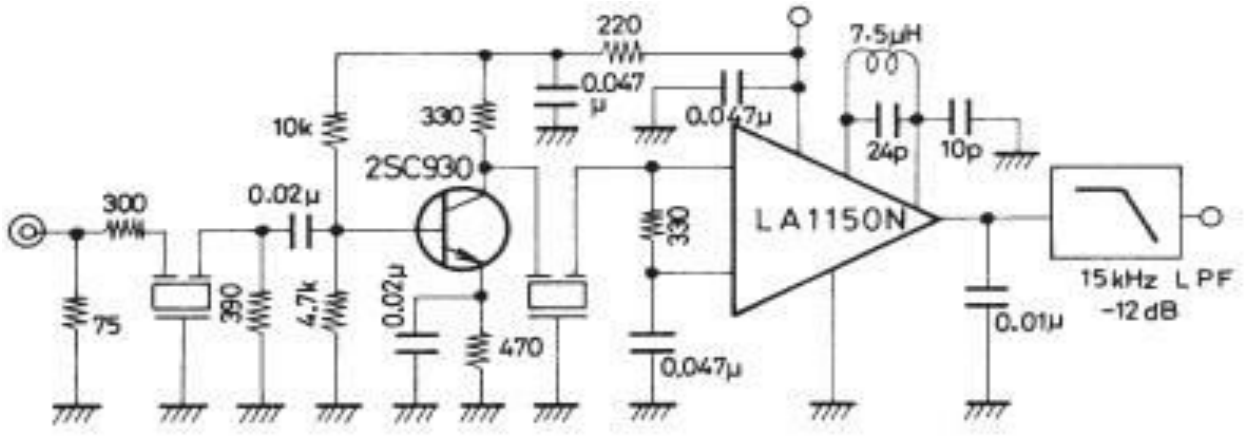
İÇ YAPISI



Sumida : 47K-074-003, 44M-052-1440
Sankyo Musen : DC-10, DC-7
Toko : 119AN-13922Z, 199CN-10504Z

ÇEŞİTLİ DEVRE ŞEMALARI



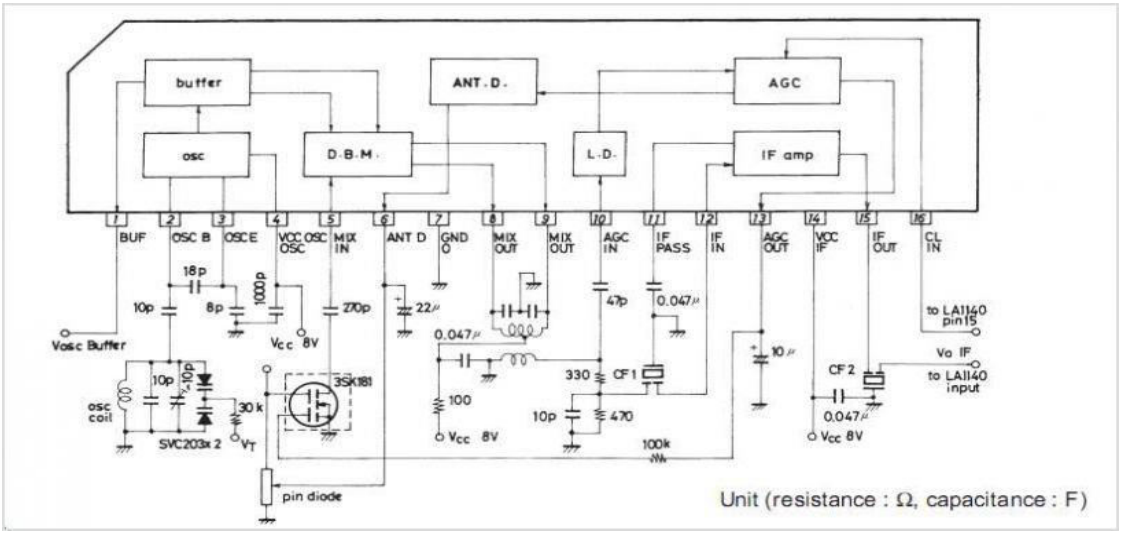


LA1175

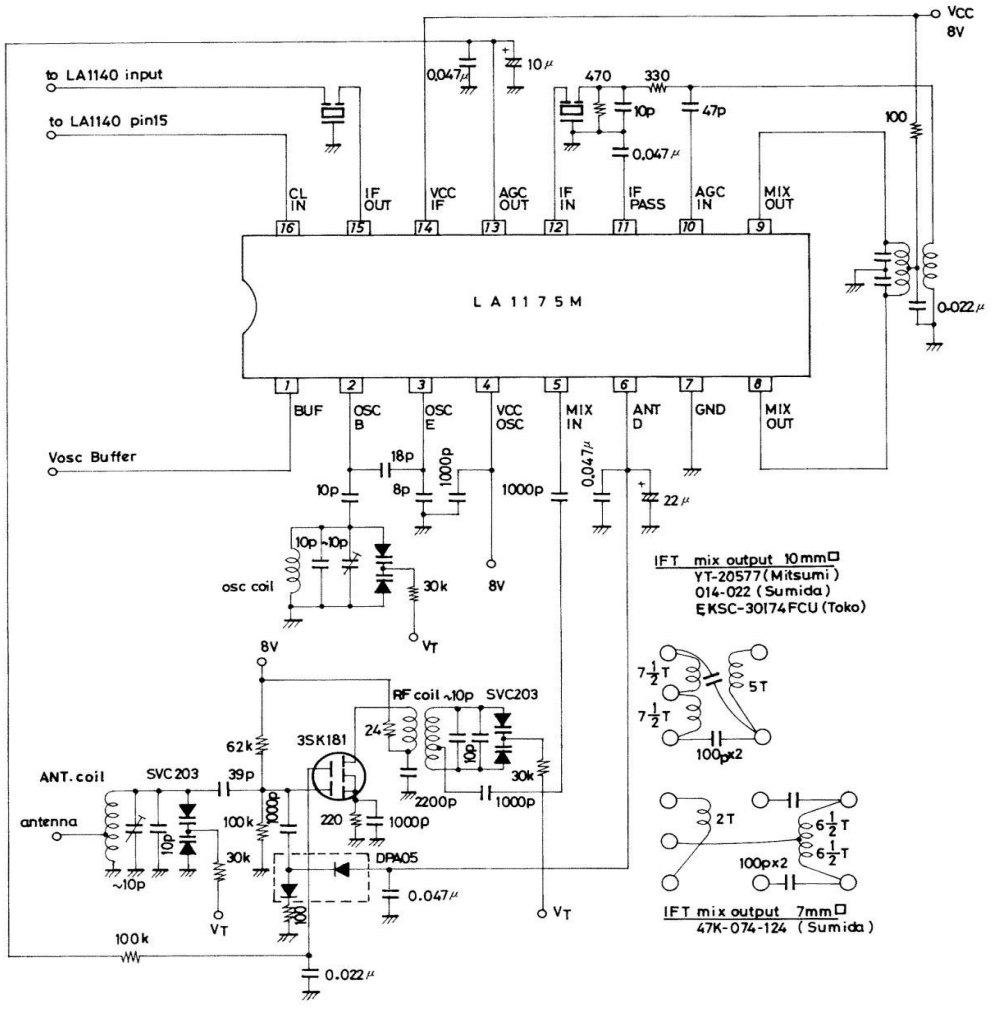
FM
MİKSER



İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

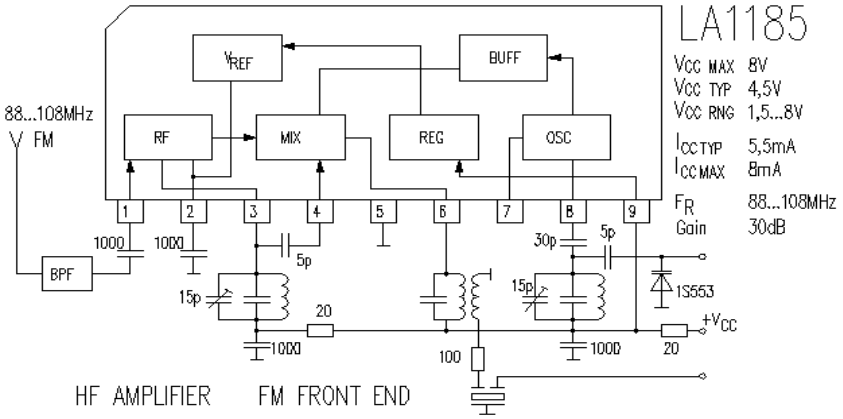


LA1185

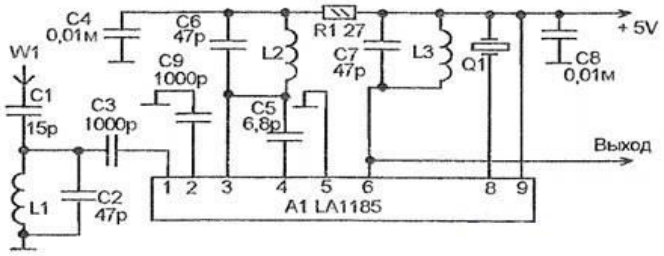
FM TUNER

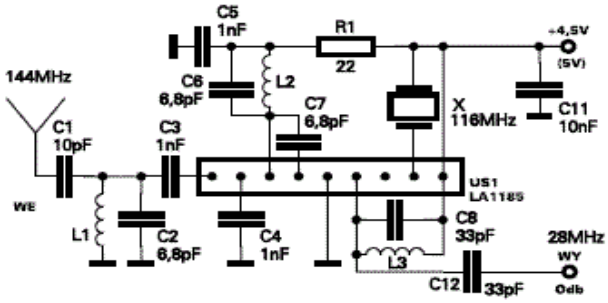


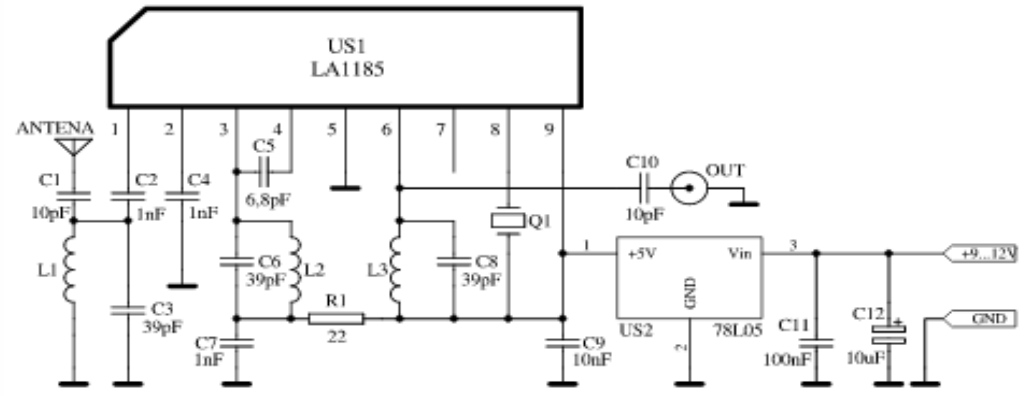
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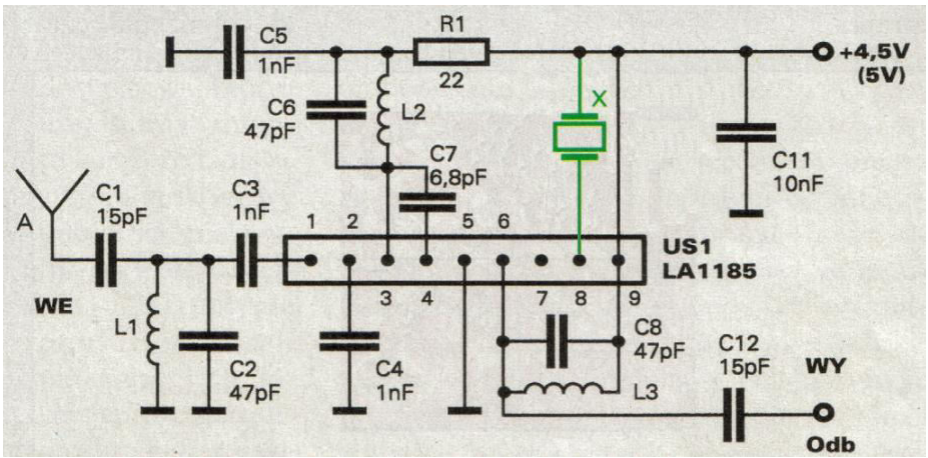


ÇEŞİTLİ DEVRE ŞEMALARI







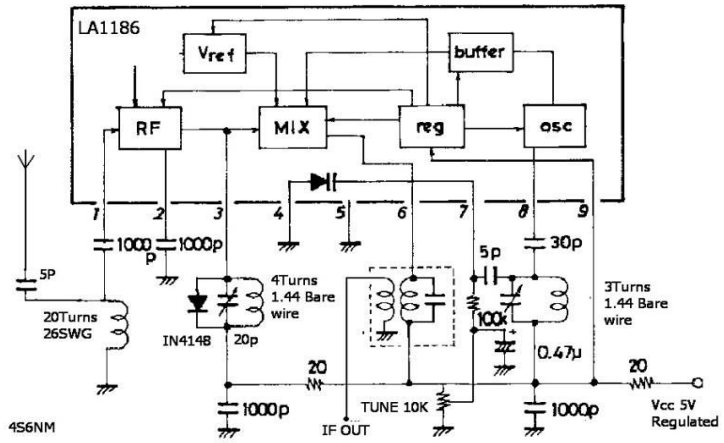


LA1186N

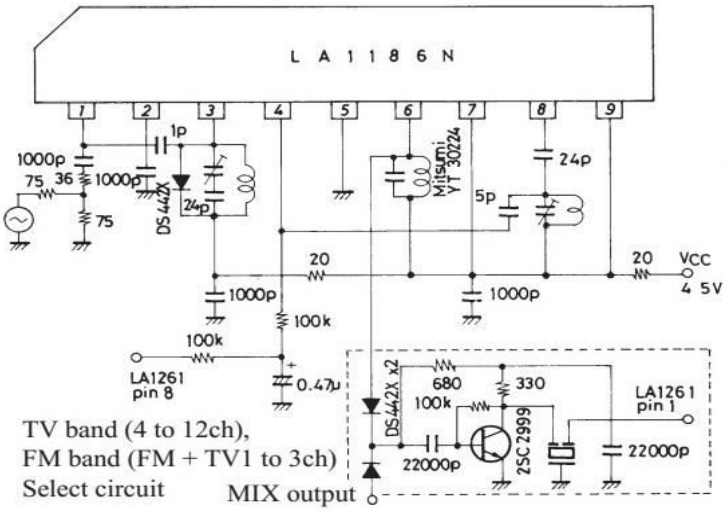
TV FM TUNER

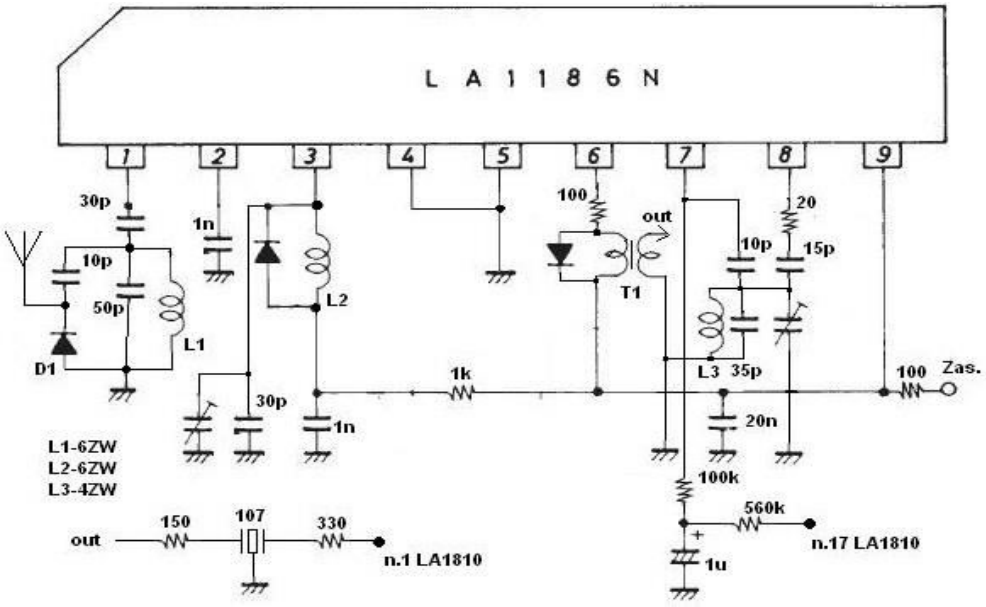


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



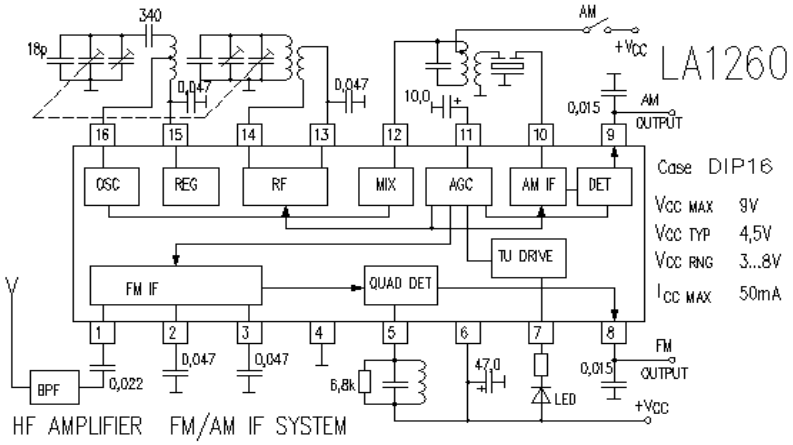


LA1260

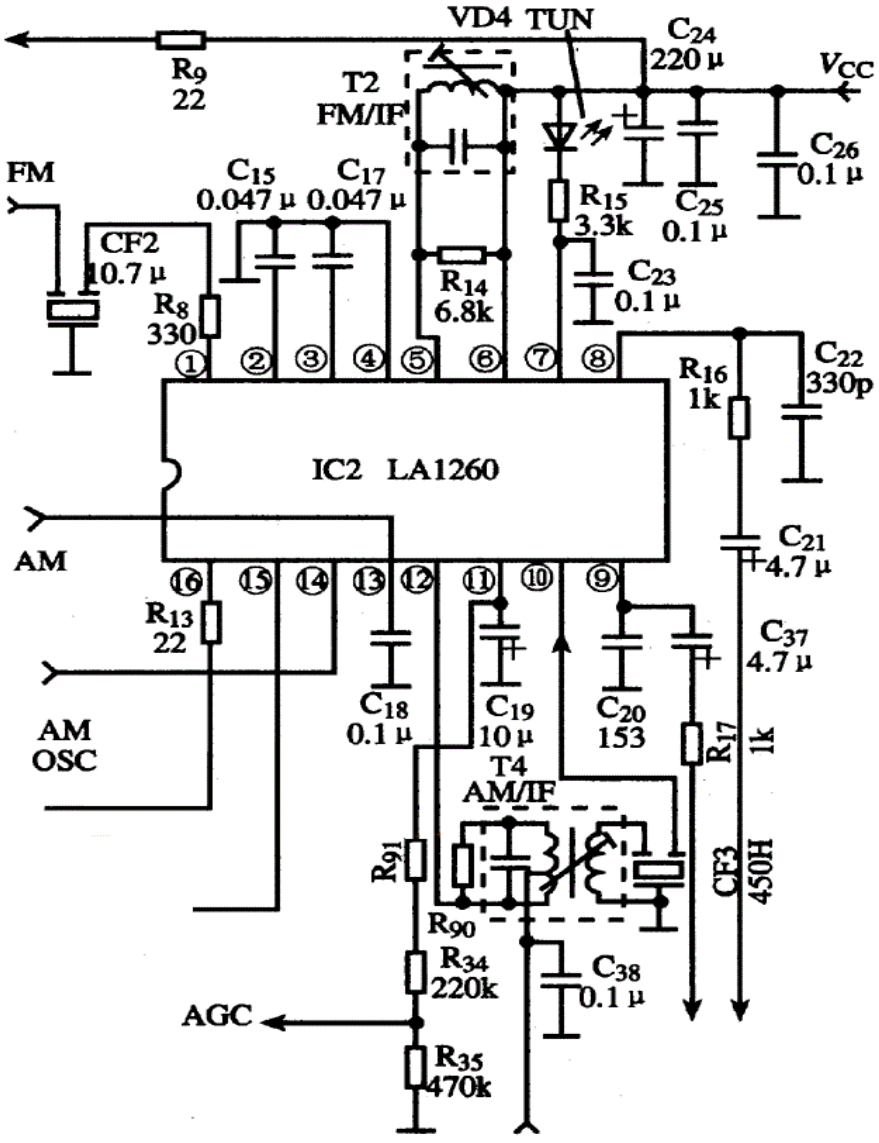
AM / FM ARA FREKANS (IF) KATI
VE DÜŞÜK GÜÇLÜ SES AMPLİFİKATÖRÜ

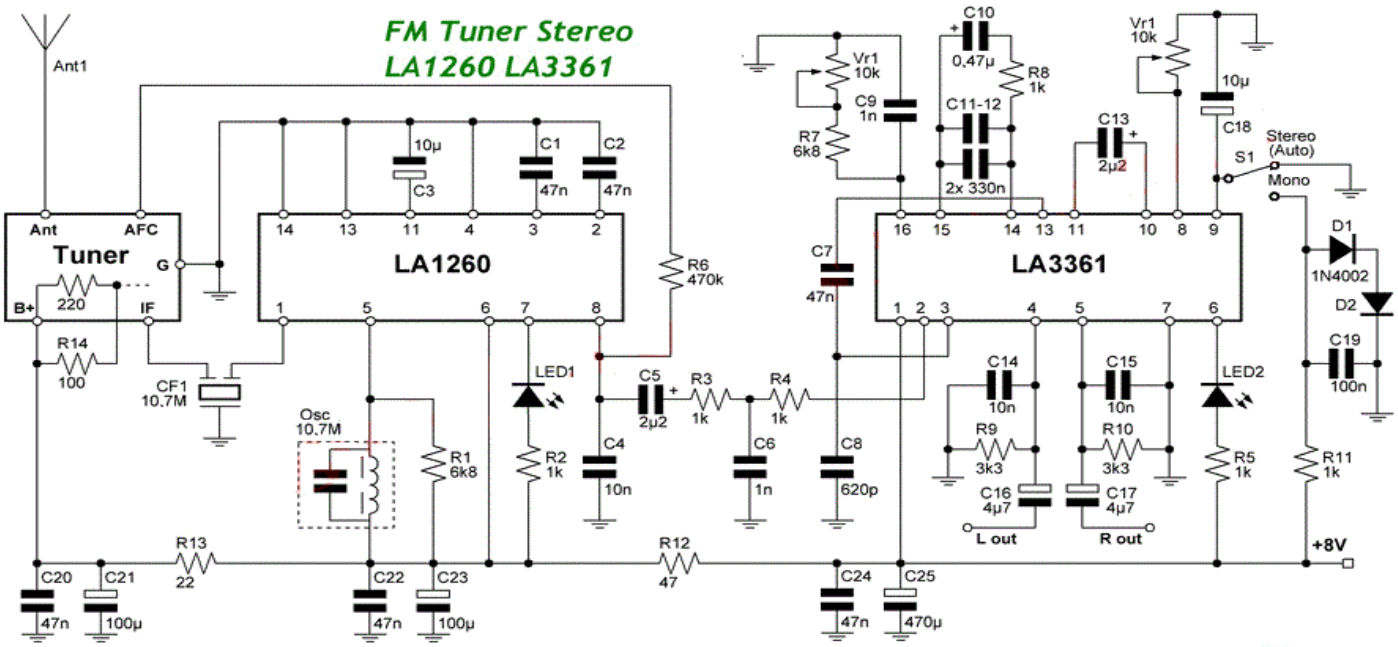


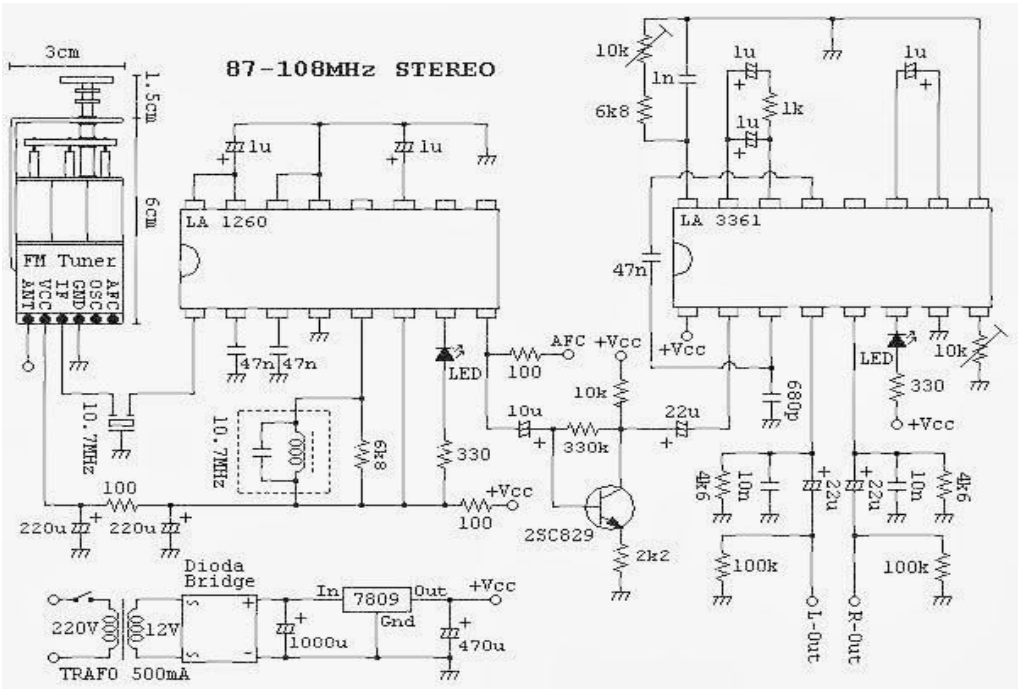
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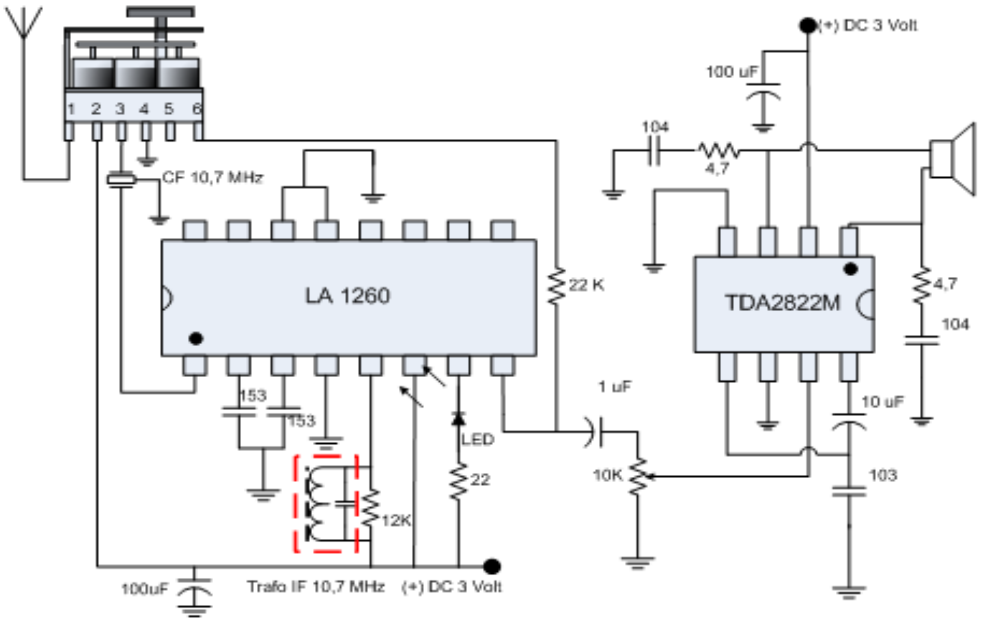


ÇEŞİTLİ DEVRE ŞEMALARI




FM Tuner Stereo
LA1260 LA3361
Ant1
Ant
AFC
Tuner
G
B+
IF
220
R14
100
CF1
10.7M
Osc
10.7M
LA1260
LA3361
R1
6k8
R2
1k
LED1
C4
10n
C5
2µ2
R3
1k
R4
1k
C6
1n
C8
620p
R6
470k
C7
47n
C1
47n
C2
47n
C3
10µ
Vr1
10k
C9
1n
R7
6k8
C10
0,47µ
R8
1k
C11-12
2x 330n
C13
2µ2
Vr1
10k
C18
10µ
S1
Stereo
(Auto)
Mono
D1
1N4002
D2
C19
100n
LED2
C14
10n
C15
10n
R9
3k3
R10
3k3
C16
4µ7
C17
4µ7
L out
R out
R5
1k
R11
1k
+8V
R13
22
R12
47
C20
47n
C21
100µ
C22
47n
C23
100µ
C24
47n
C25
470µ


87-108MHz STEREO
3cm
1.5cm
6cm
FM Tuner
ANT
VCC
GND
IF
OSC
AFC
LA 1260
LA 3361
1u
47n
10k
1n
6k8
1k
LED
100
330
AFC
+Vcc
10u
330k
22u
2SC829
2k2
680p
10.7MHz
6k8
220u
100
4k6
10n
100k
L-Out
R-Out
Dioda
Bridge
220V
12V
TRAFO 500mA
In
7809
Out
Gnd
1000u
470u

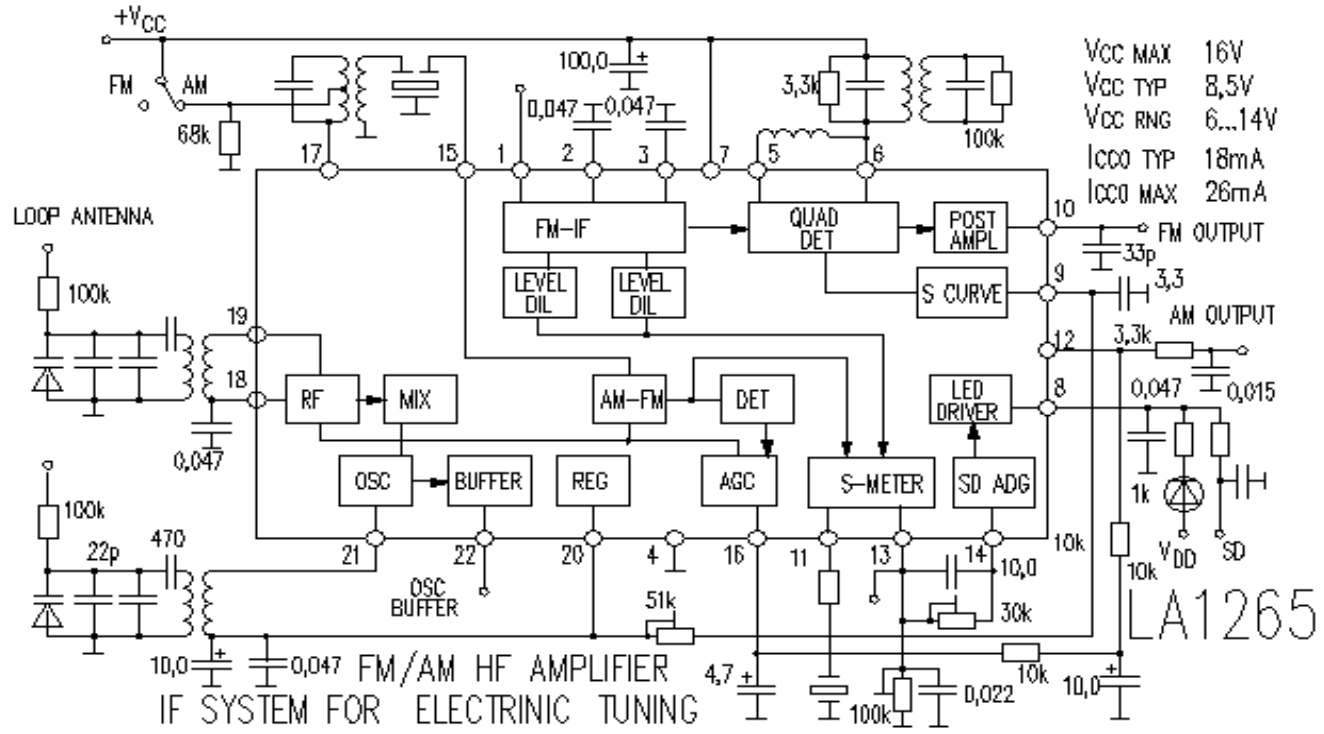

CF 10,7 MHz
LA 1260
TDA2822M
(+) DC 3 Volt
100 uF
104
4,7
22 K
153
LED
22
12K
1 uF
10K
10 uF
103
100uF
Trafo IF 10,7 MHz
(+) DC 3 Volt

LA1265

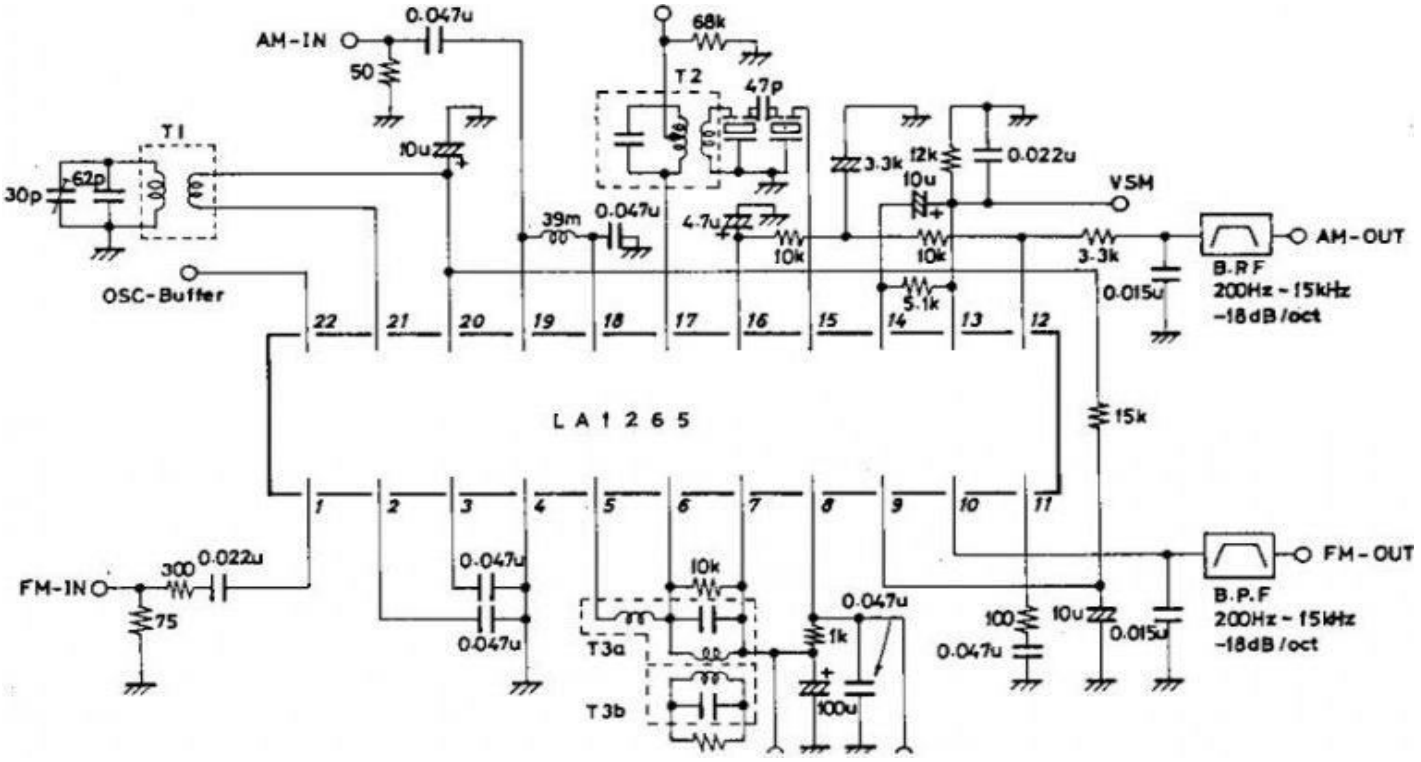
AM / FM IF AMPLİFİKATÖR
VE DÜŞÜK GÜÇLÜ SES ÇIKIŞI



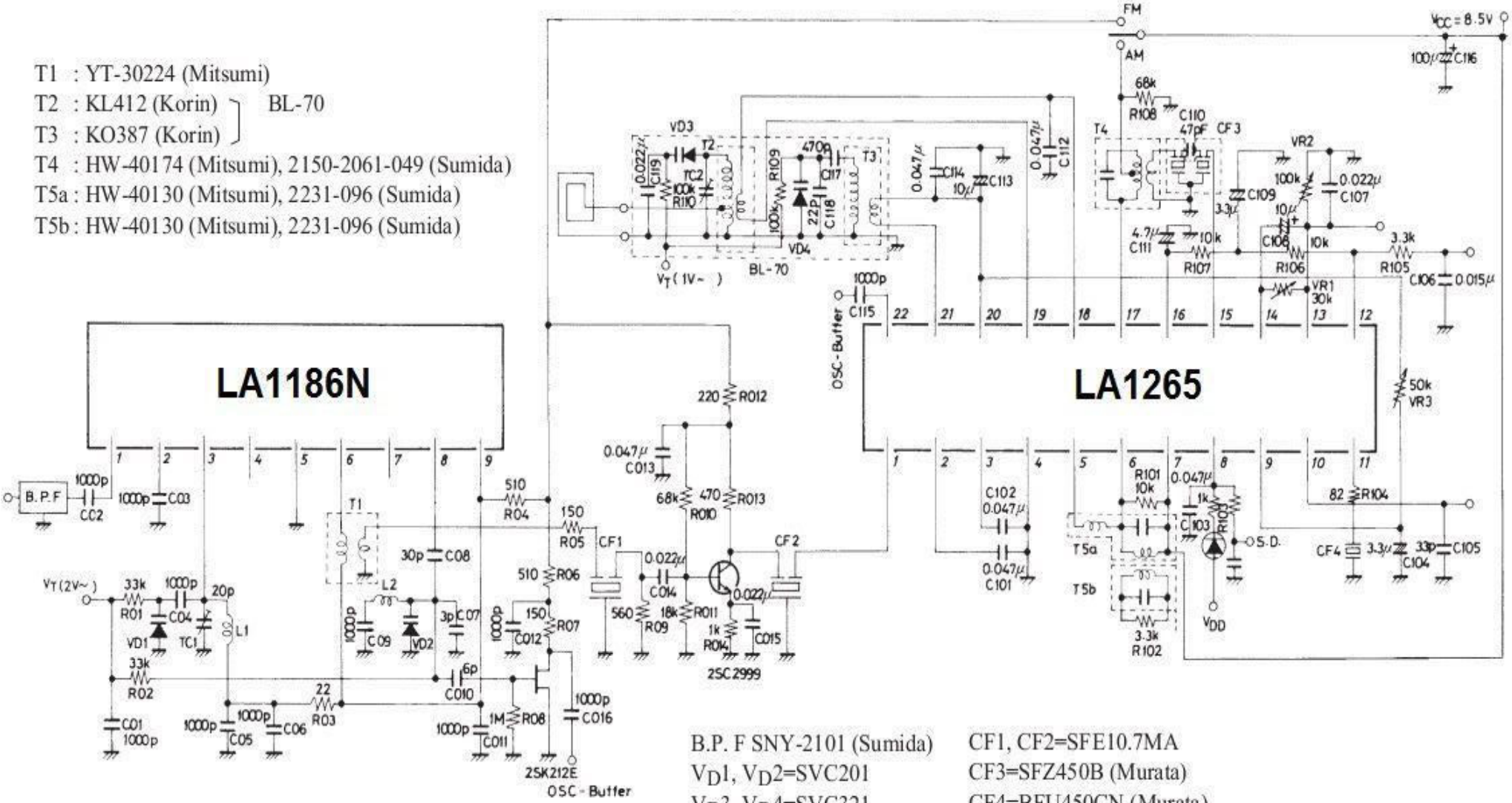
İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI



T1 : YT-30224 (Mitsumi)
T2 : KL412 (Korin) ┐ BL-70
T3 : KO387 (Korin) ┘
T4 : HW-40174 (Mitsumi), 2150-2061-049 (Sumida)
T5a : HW-40130 (Mitsumi), 2231-096 (Sumida)
T5b : HW-40130 (Mitsumi), 2231-096 (Sumida)



Unit (resistance : Ω, capacitance : F)

B.P. F SNY-2101 (Sumida)
V_D1, V_D2=SVC201
V_D3, V_D4=SVC321
TC1=20pF
TC2=20pF

CF1, CF2=SFE10.7MA
CF3=SFZ450B (Murata)
CF4=BFU450CN (Murata)
L1 : YT-30196 (Mitsumi), 0708-700 (Sumida)
L2 : HW50433 (Mitsumi), 0267-034 (Sumida)

LA1800

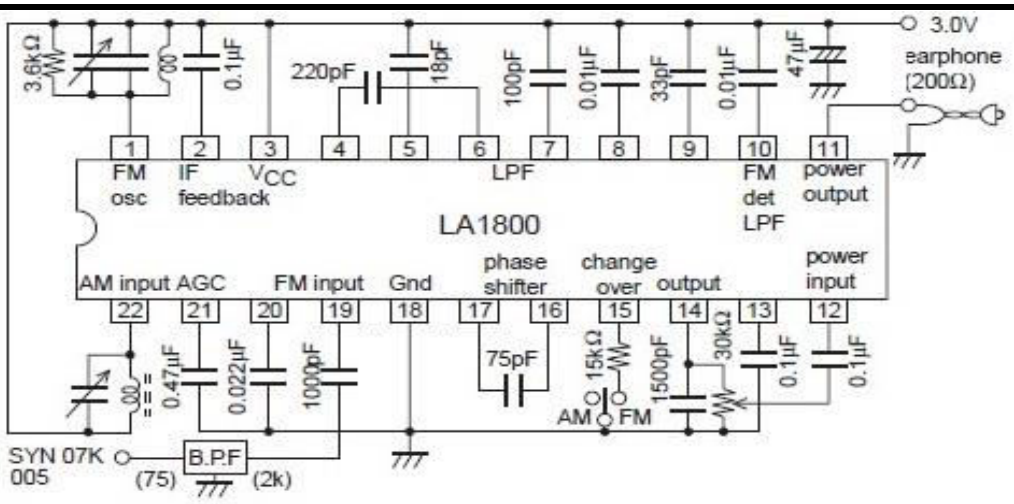
AM / FM

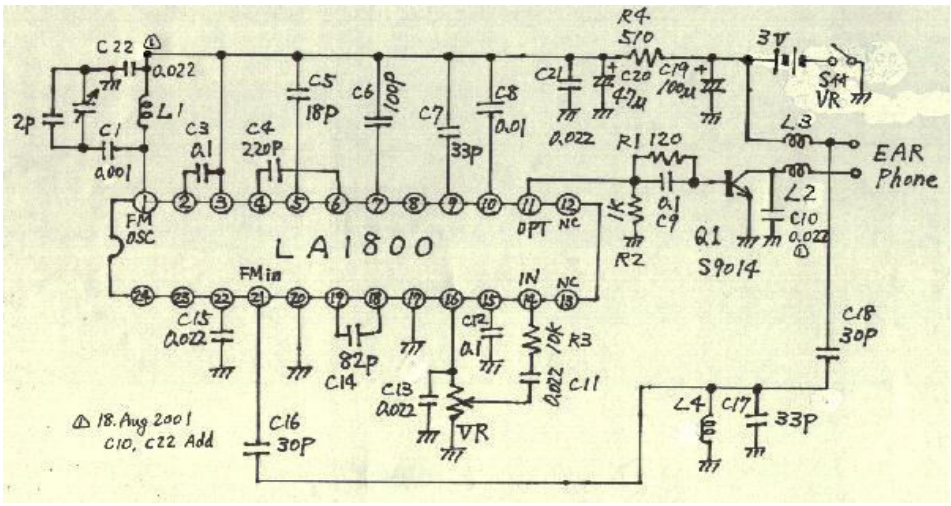
RADYO

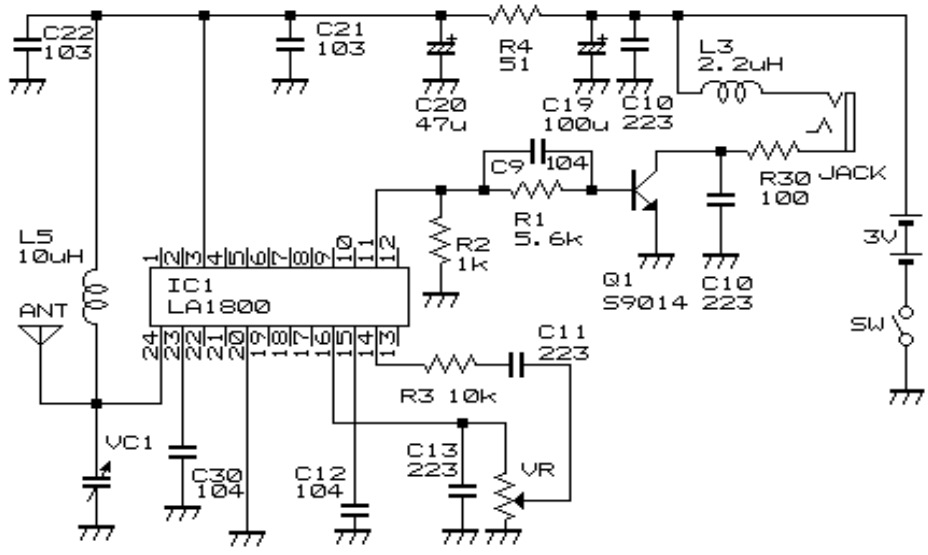


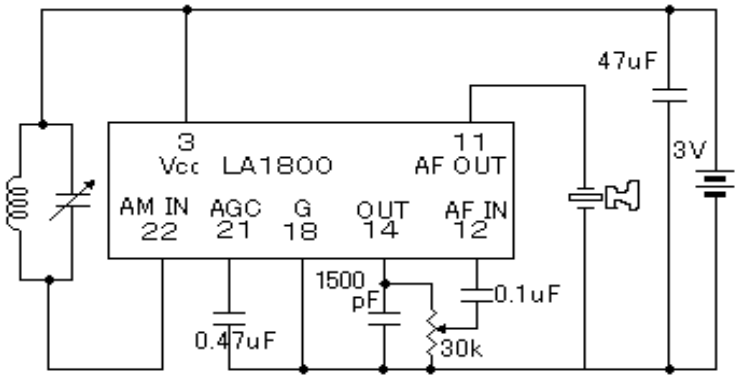
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

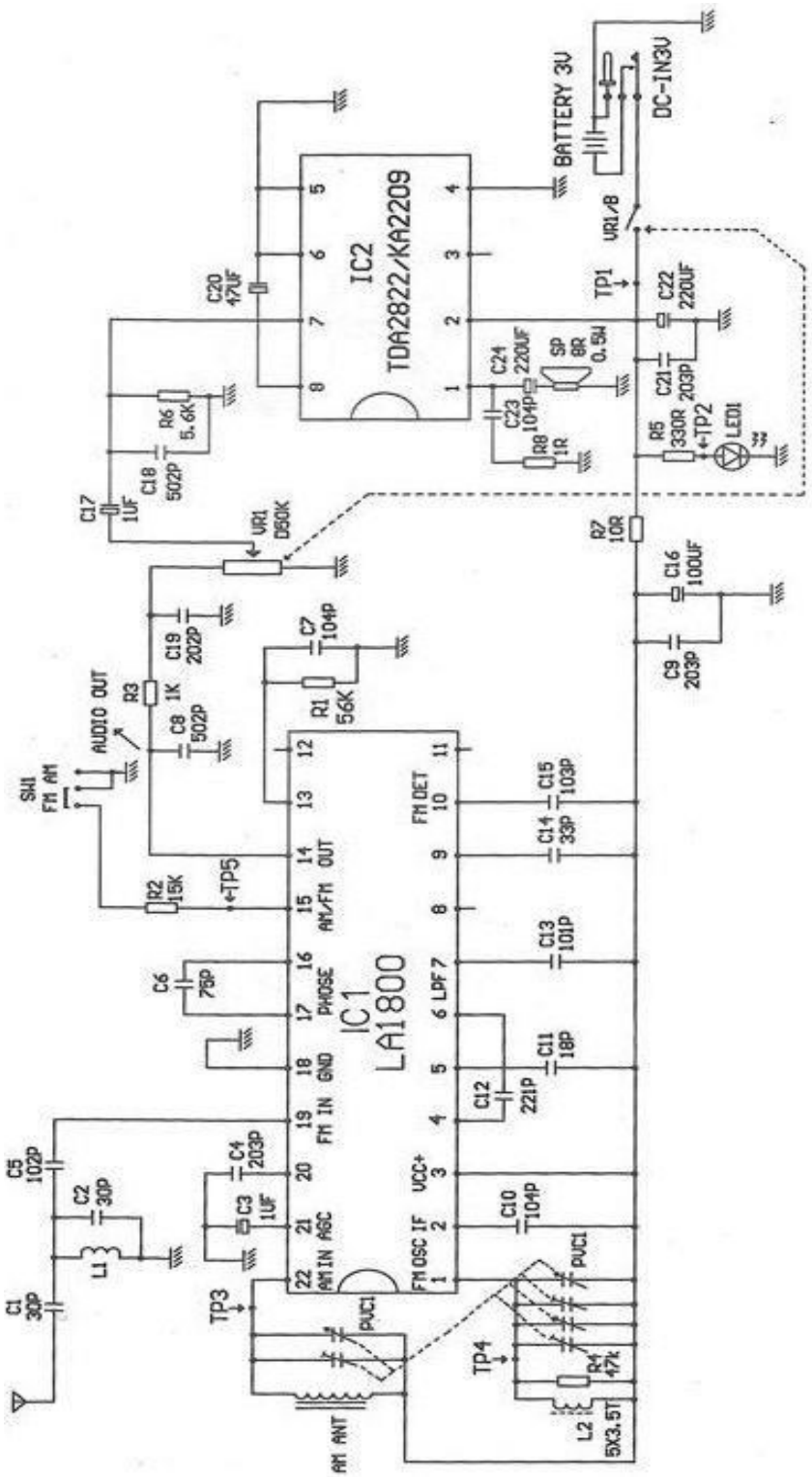








BASİT AM RADYO



LA1810

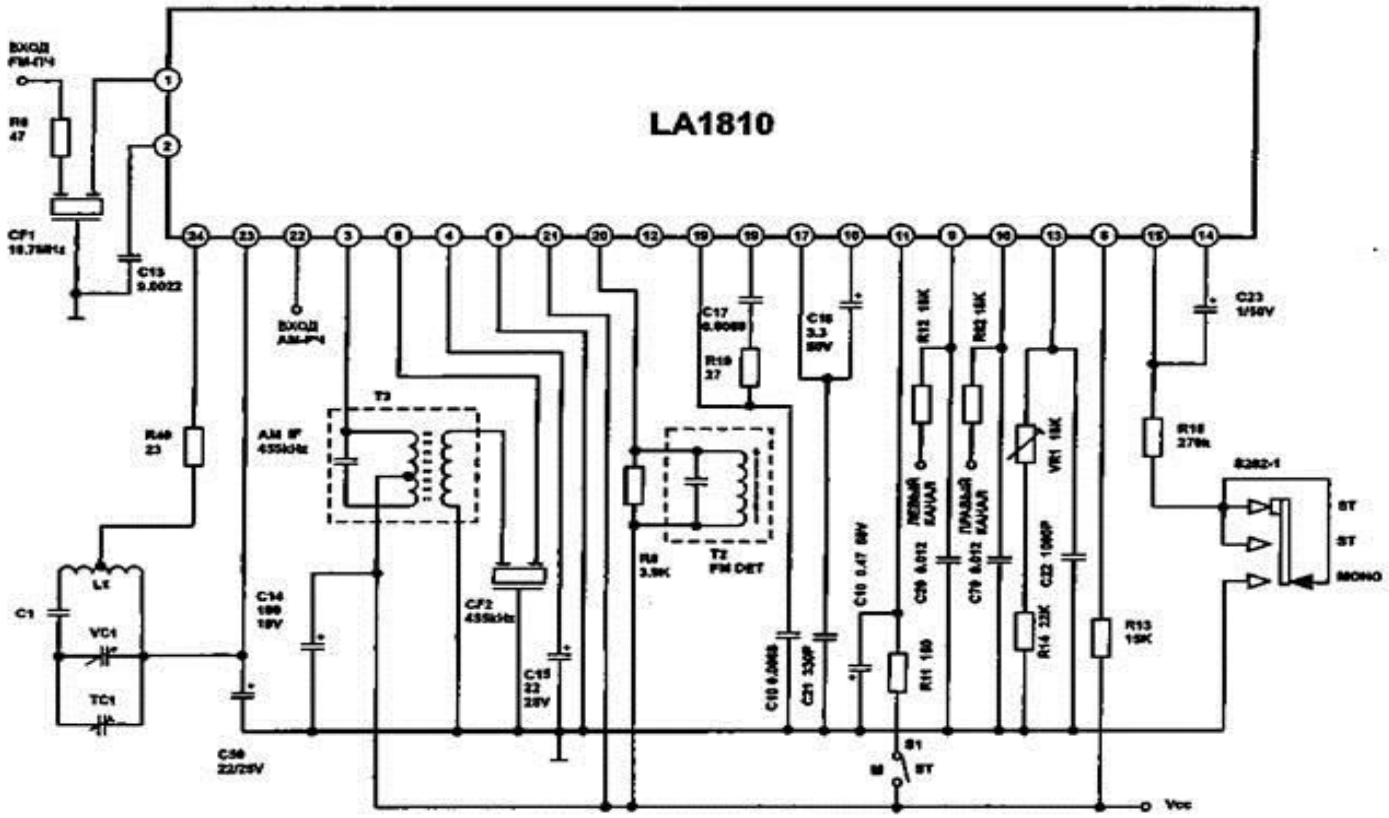
AM / FM

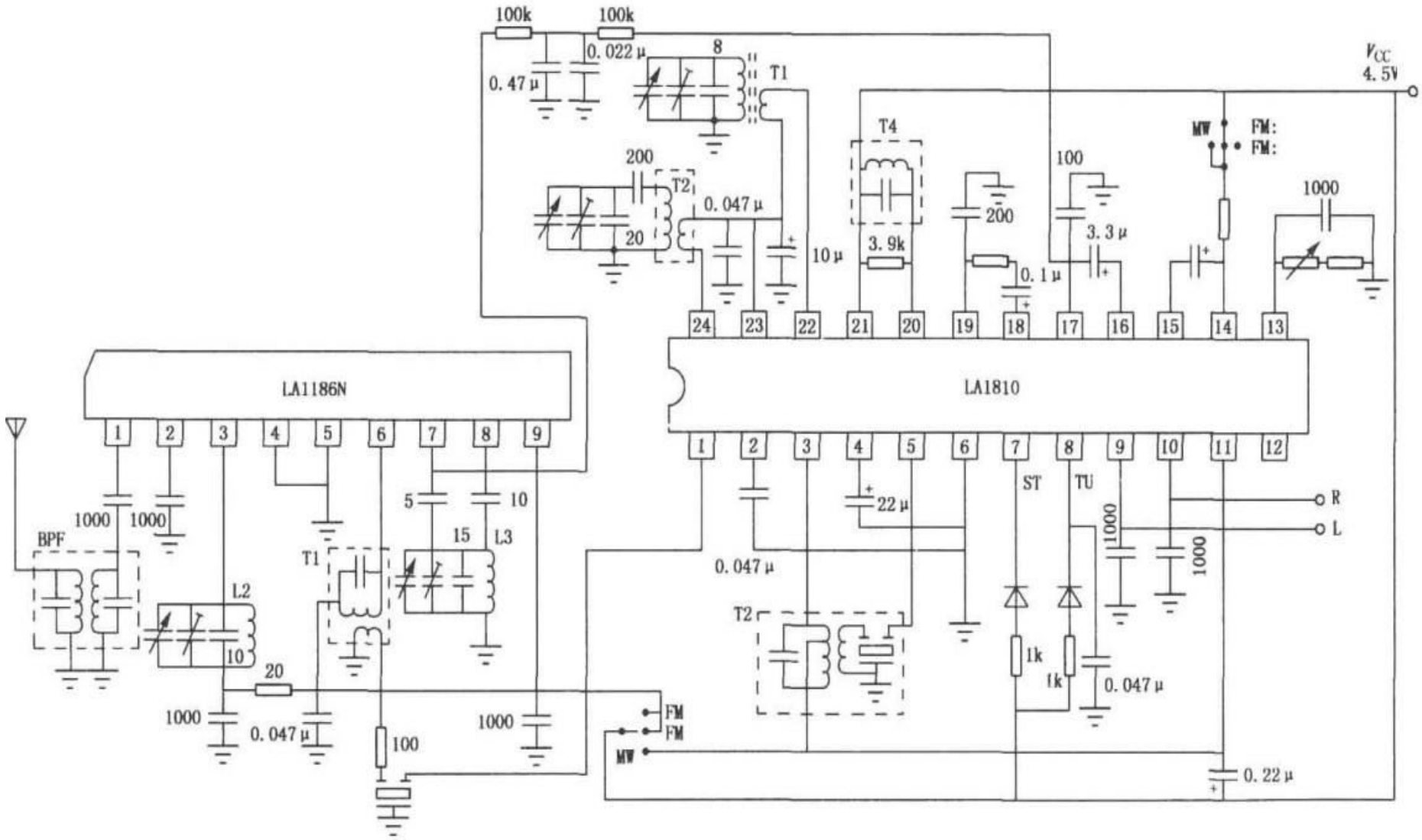
ARA FREKANS (IF) AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI




100k
100k
0.022 μ
0.47 μ
8
T1
T4
200
T2
20
0.047 μ
10 μ
3.9k
200
100
3.3 μ
0.1 μ
1000
MW
FM:
FM:
Vcc
4.5V
LA1186N
LA1810
BPF
1000
1000
L2
10
T1
5
15
L3
10
20
1000
0.047 μ
100
1000
FM
FM
MW
0.047 μ
22 μ
T2
ST
TU
1k
1k
0.047 μ
1000
1000
R
L
0.22 μ

LA3160

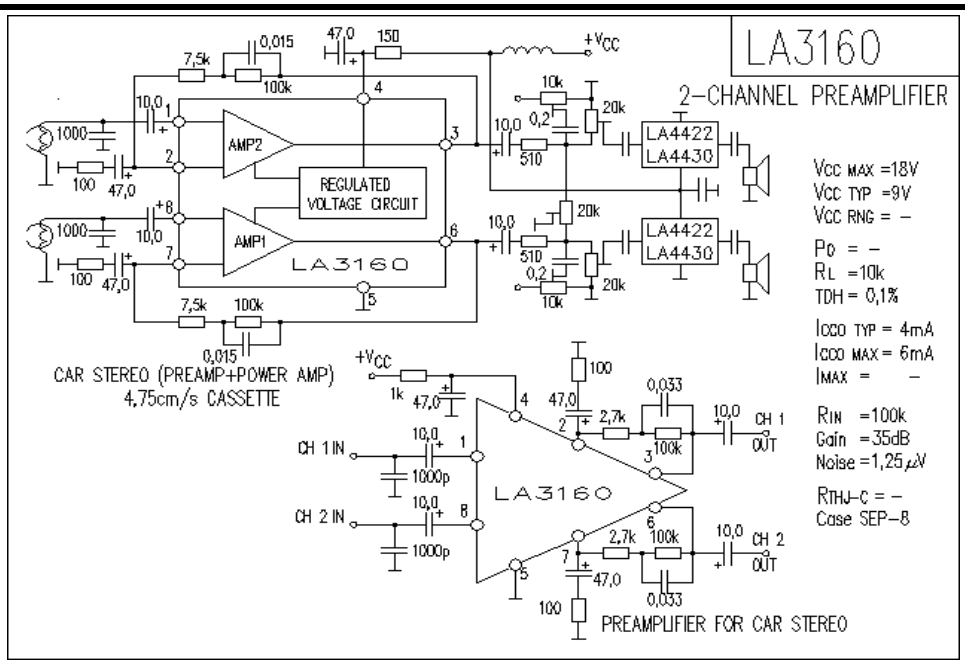
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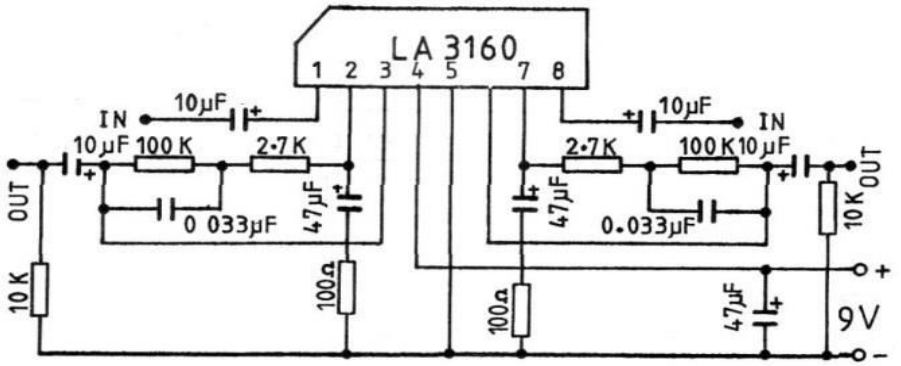
PREAMPLİFİKATÖR

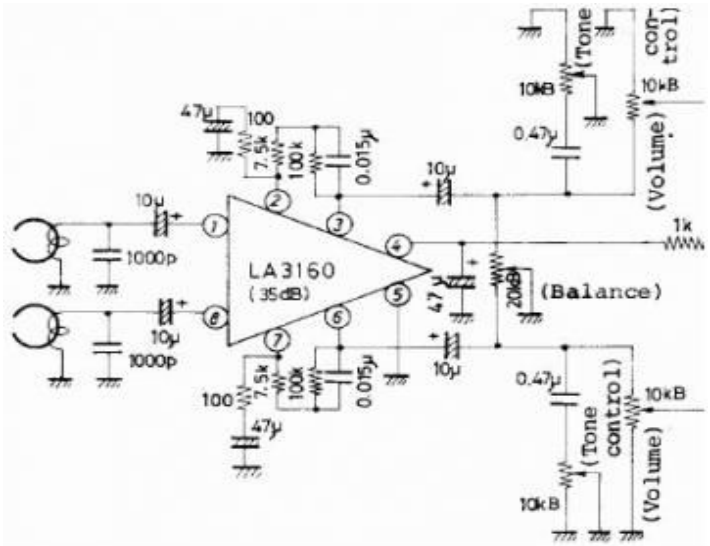


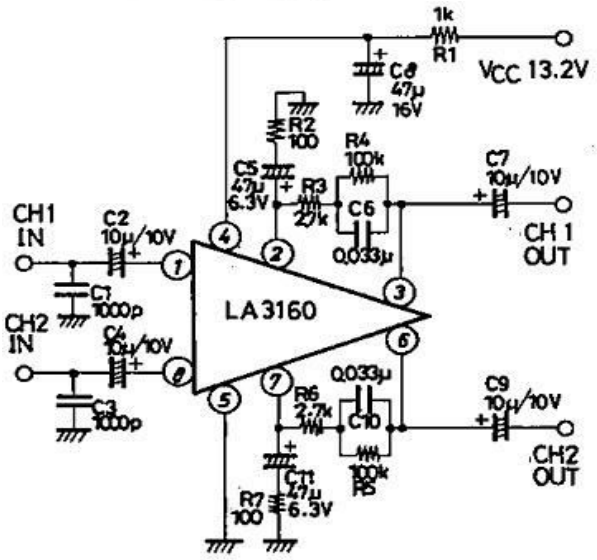
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI









LA3161

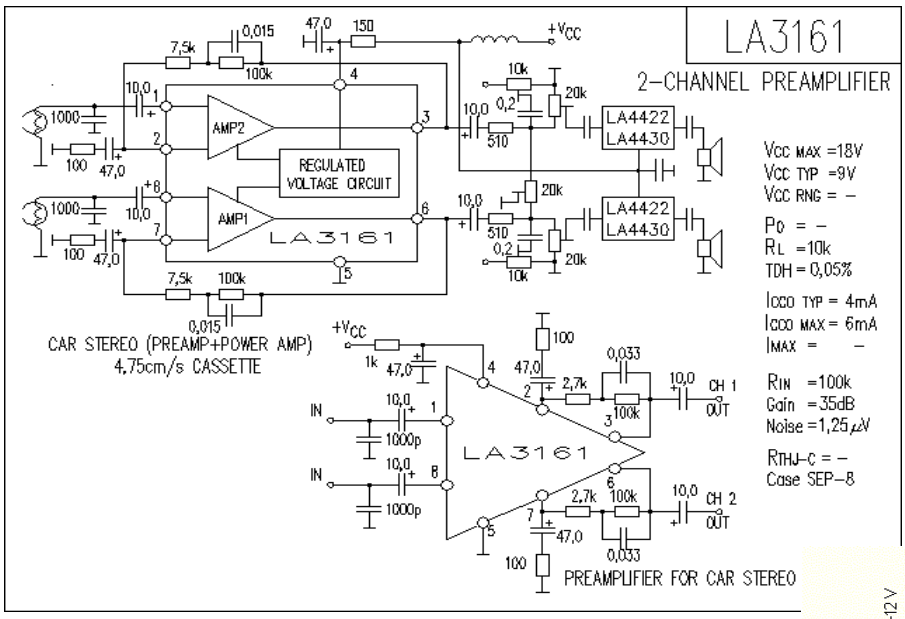
STEREO

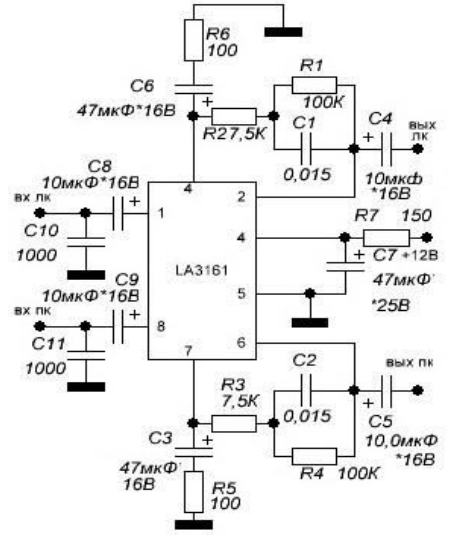
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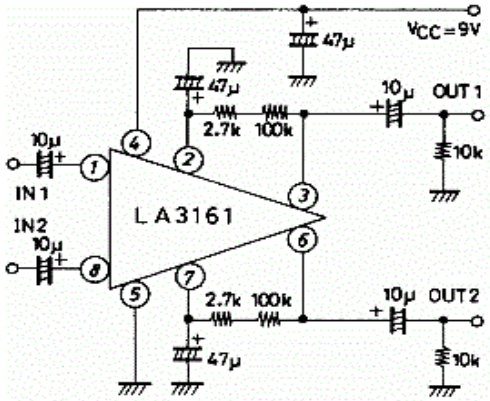


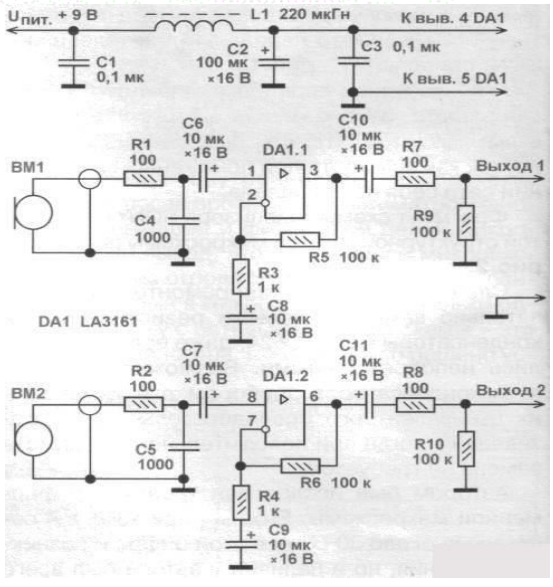
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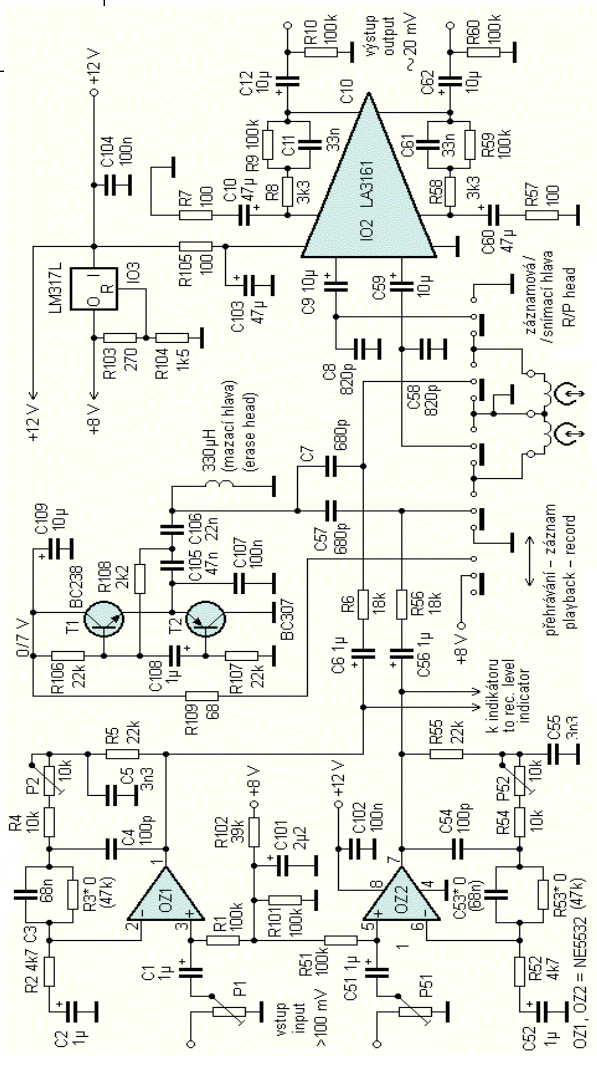
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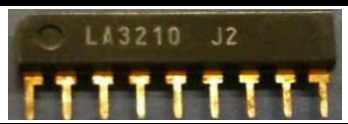




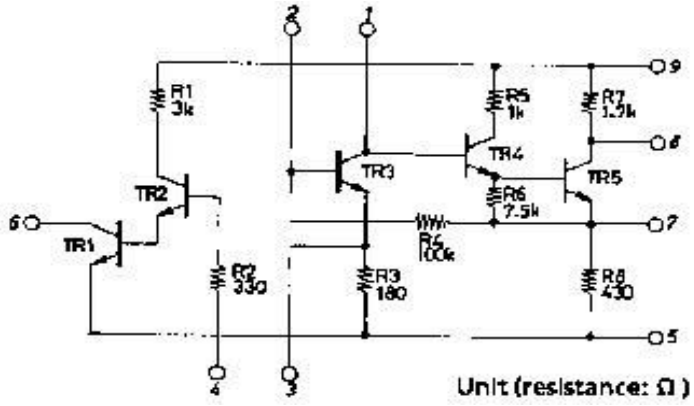


LA3210

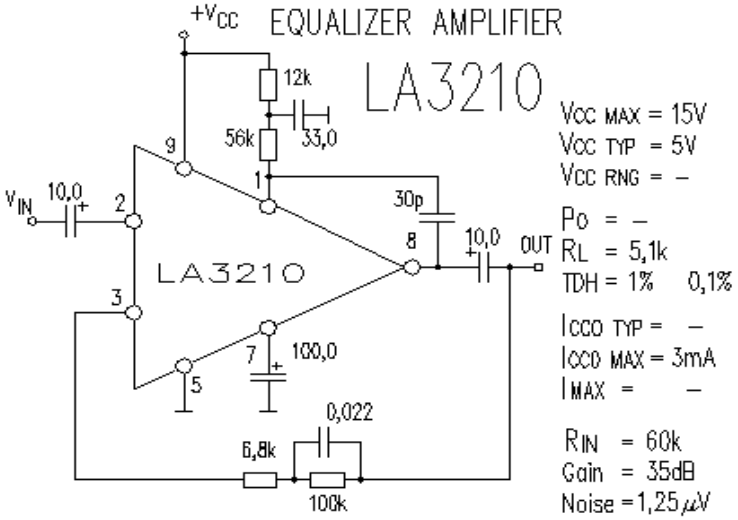
EQUALİZER AMPLİFİKATÖRÜ

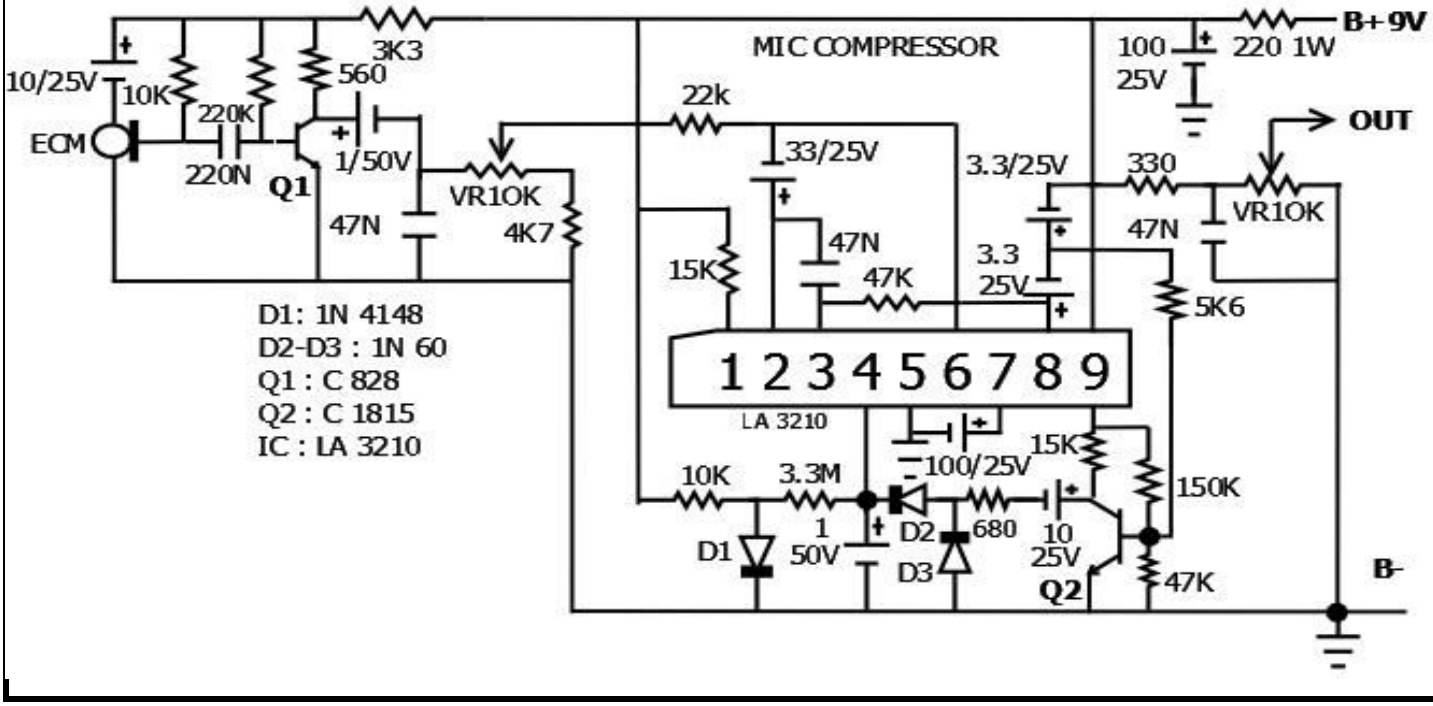


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI





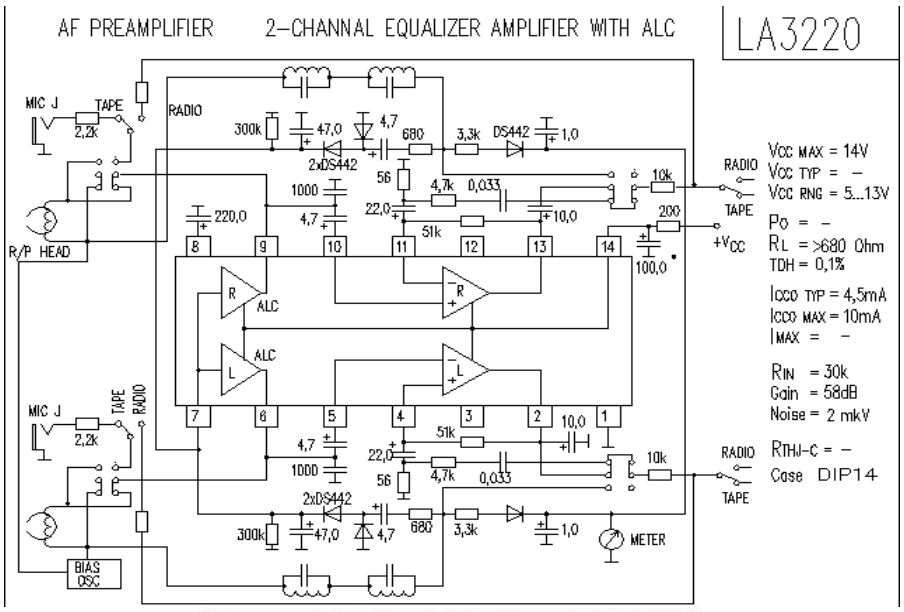
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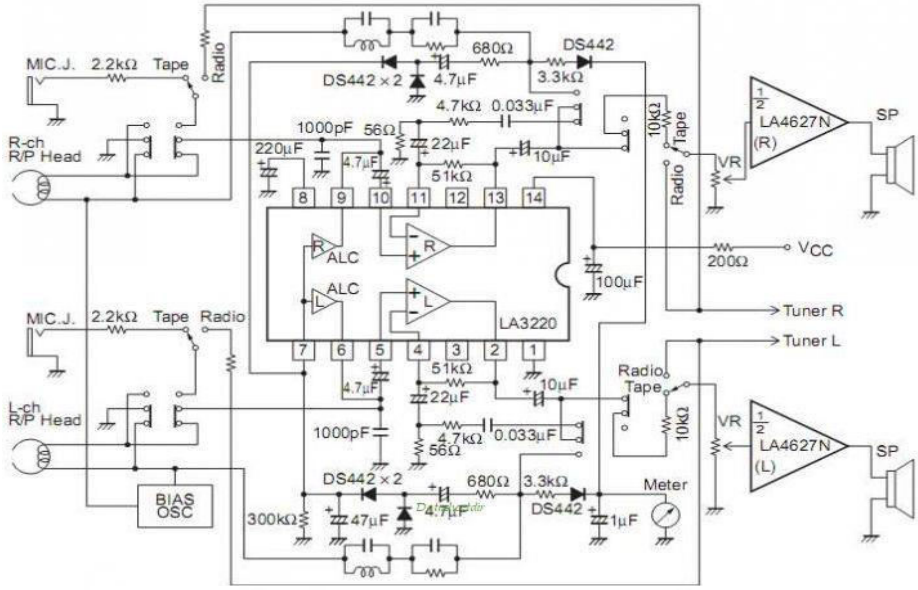
STEREO PREAMPLİFİKATÖR VE EQUALİZER AMPLİFİKATÖRÜ

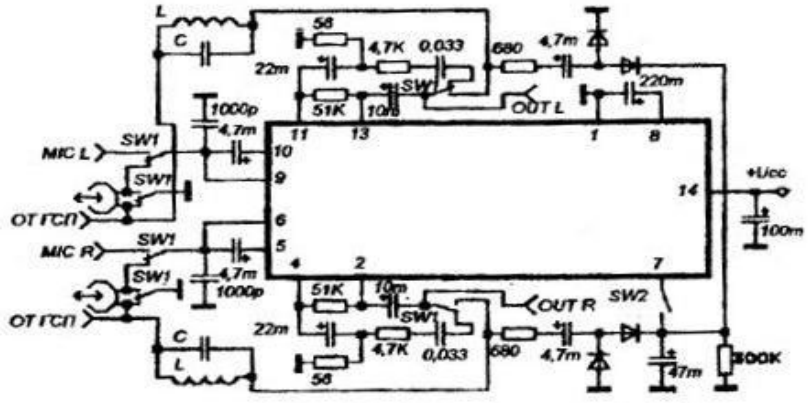


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA3225T / LA3226T

STEREO

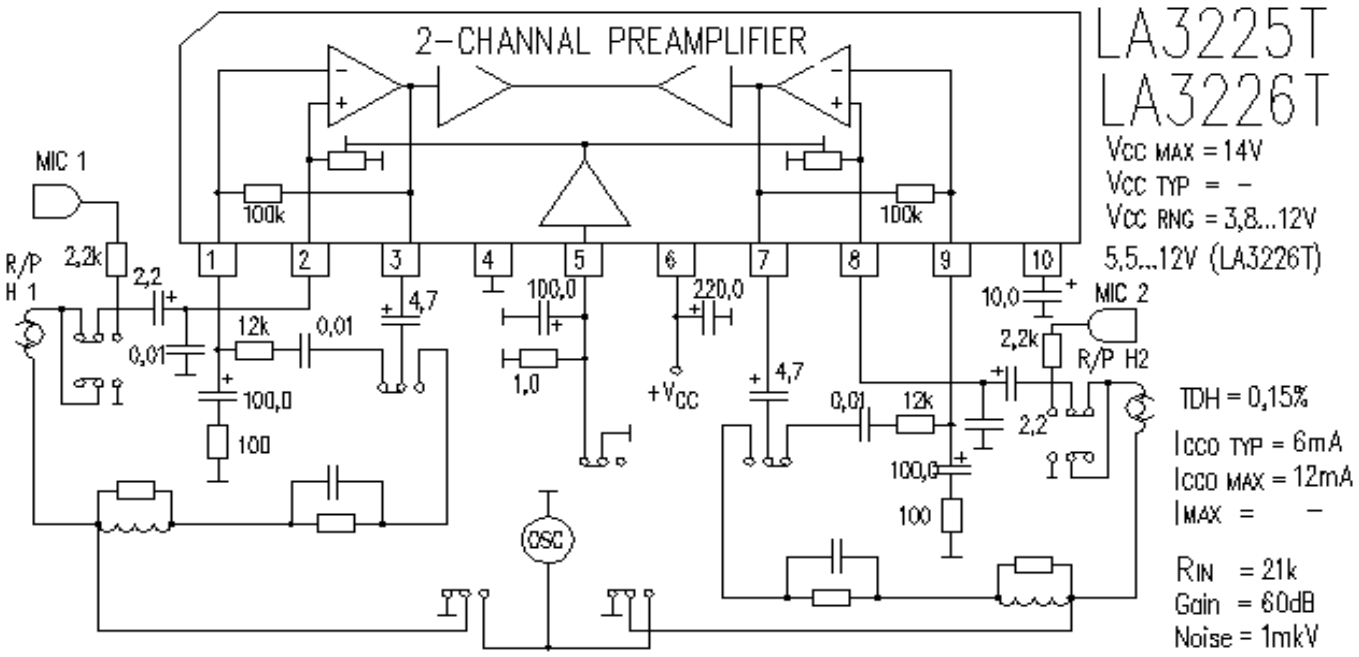
PREAMPLİFİKATÖR





İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



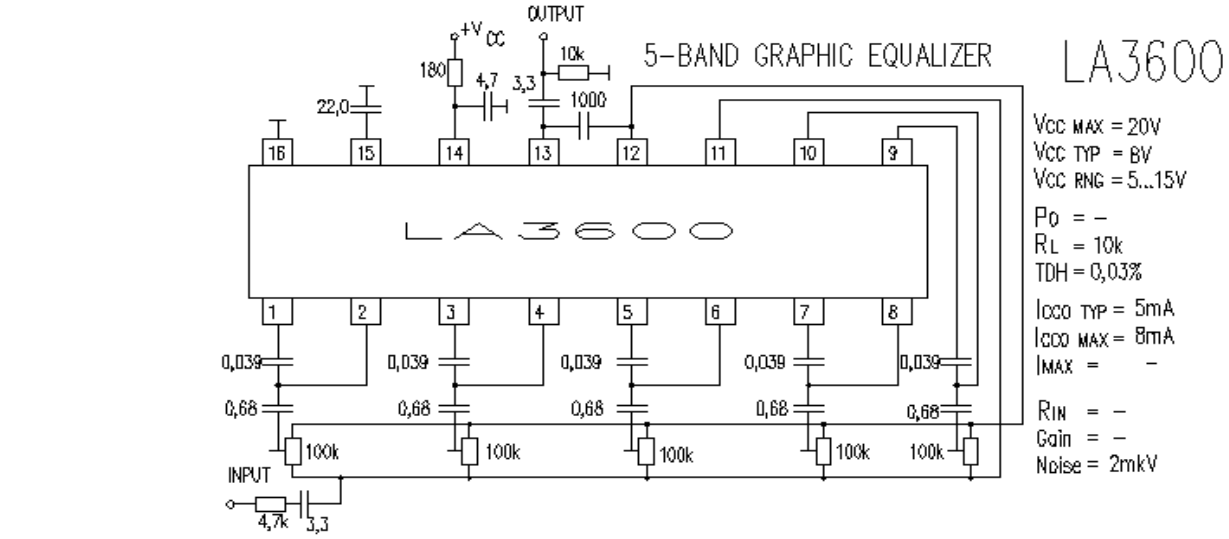
LA3600

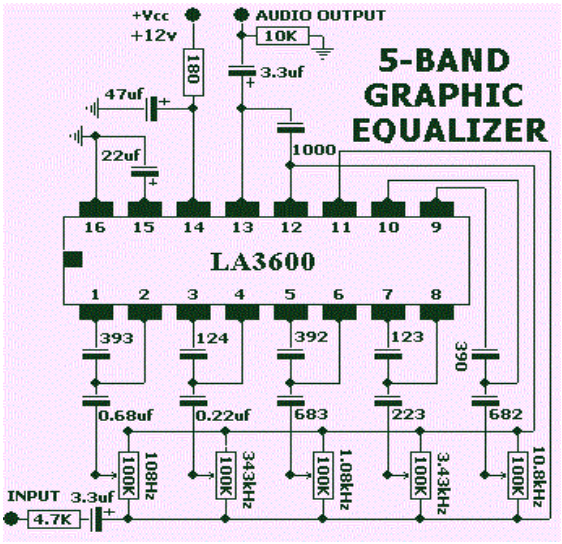
5 BAND GRAFİK EQUALİZER

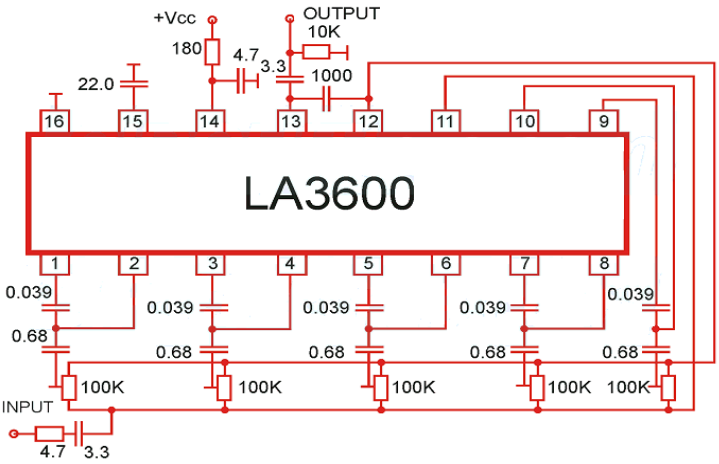


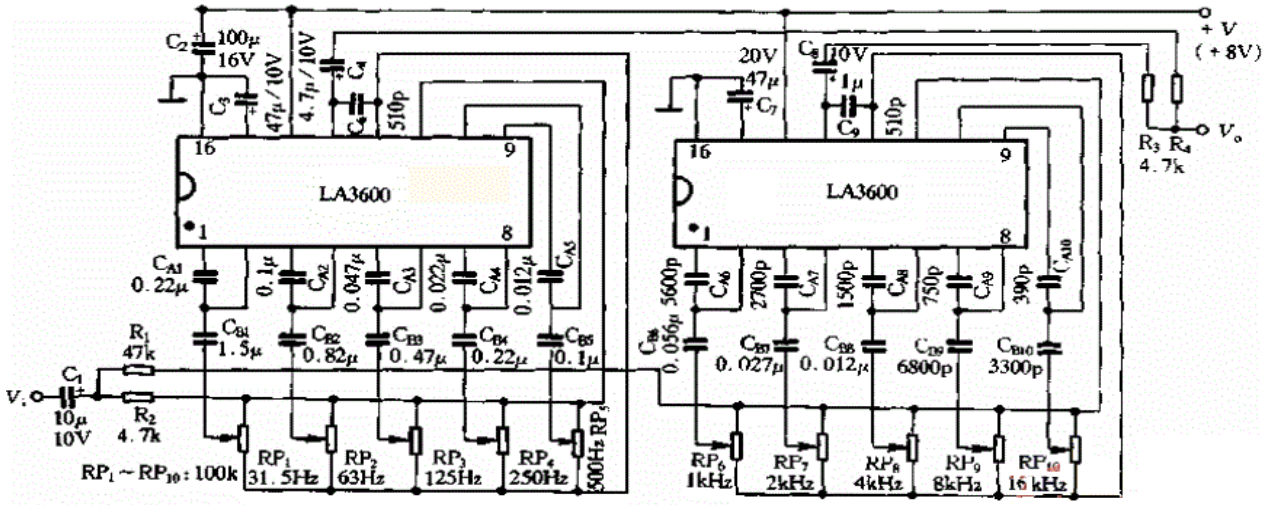
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ÇEŞİTLİ DEVRE ŞEMALARI









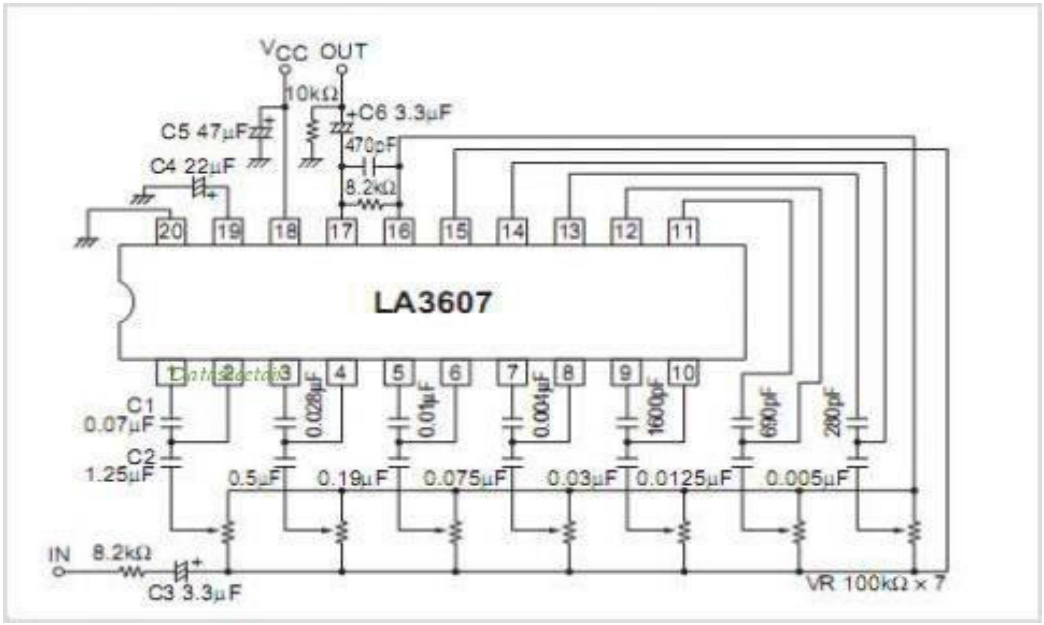
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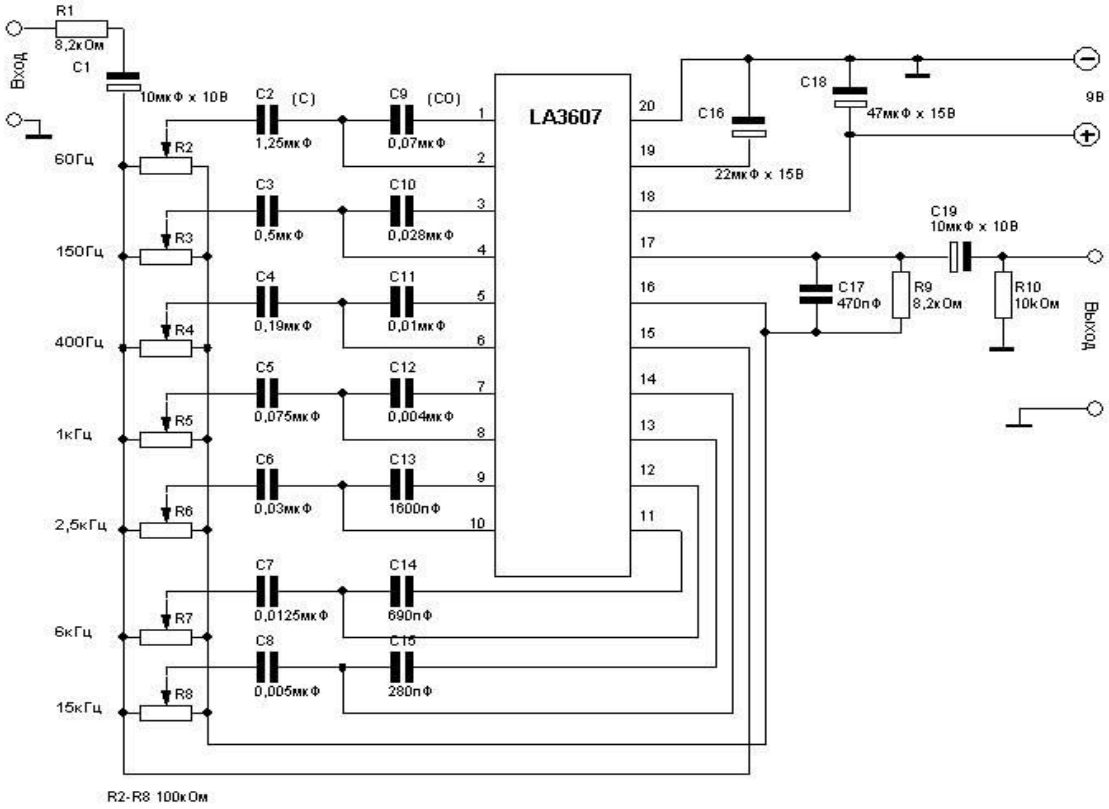
7 BAND GRAFİK
EQUALİZER



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

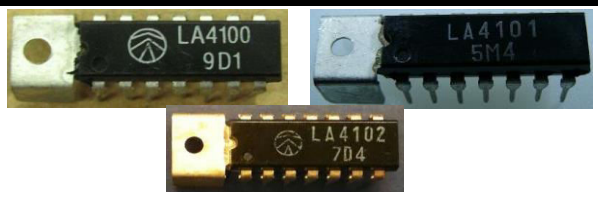




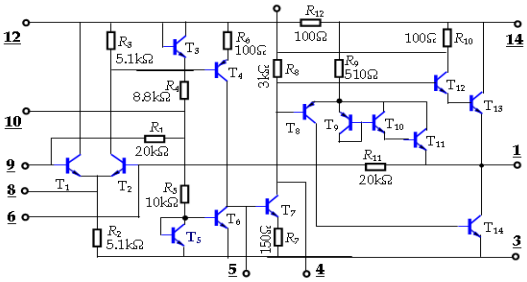
LA4100 / LA4101 / LA4102

1 WATT / 1.5 WATT / 2.1 WATT

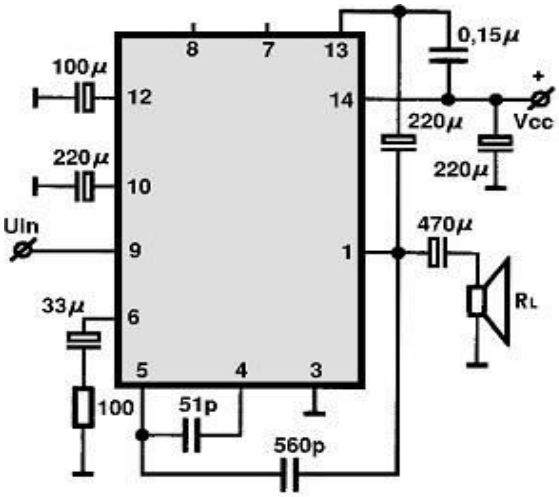
MONO AMPLİFİKATÖR

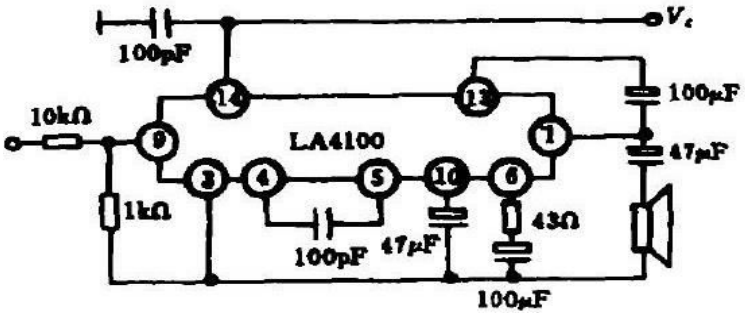


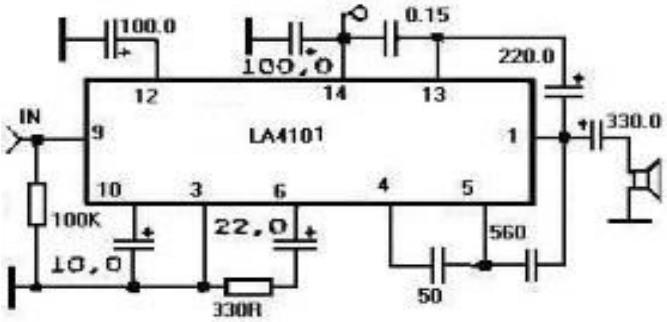
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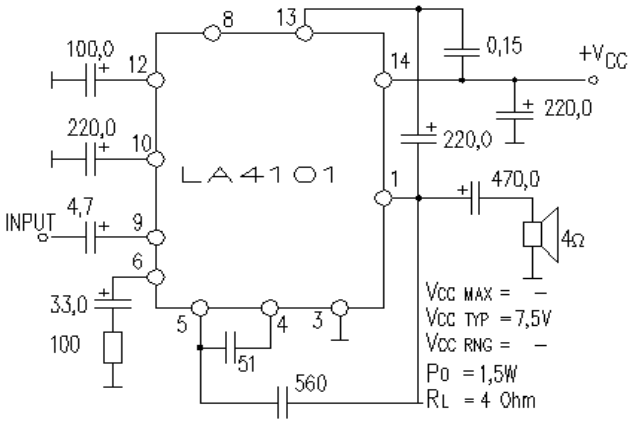


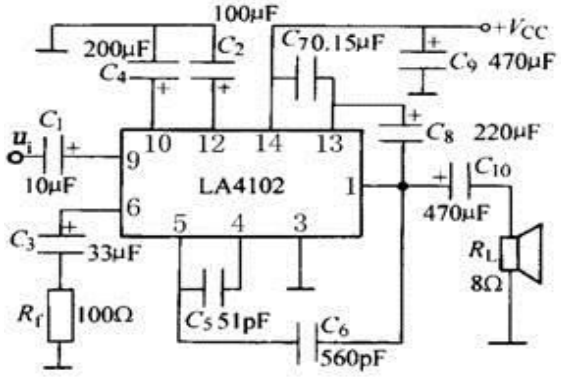
ÇEŞİTLİ DEVRE ŞEMALARI

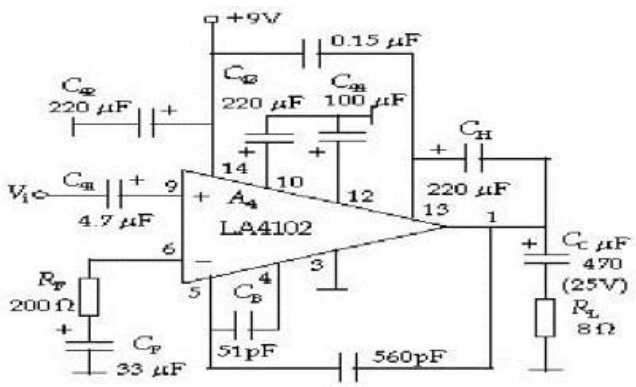












LA4110

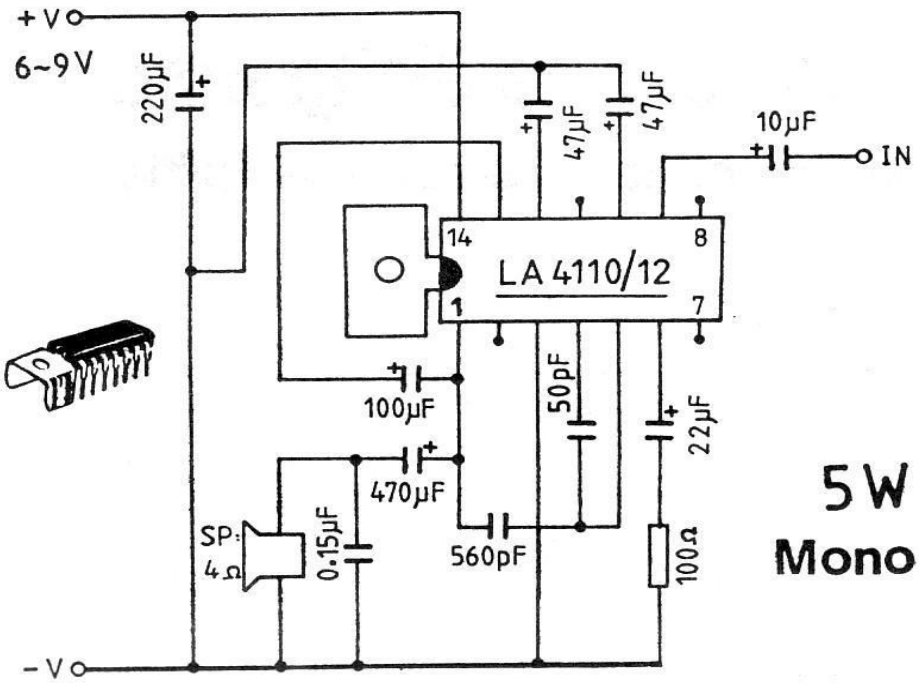
1 WATT

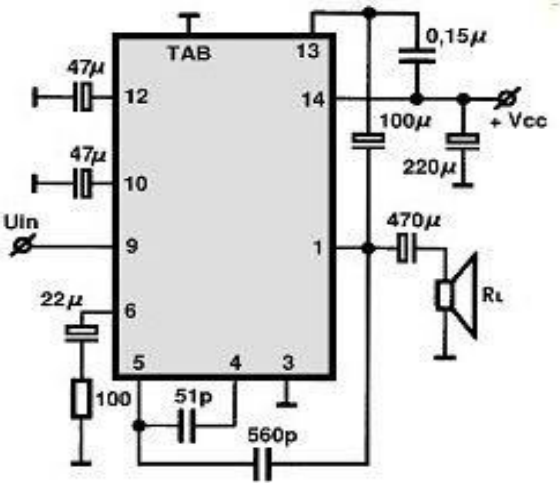
MONO AMPLİFİKATÖR

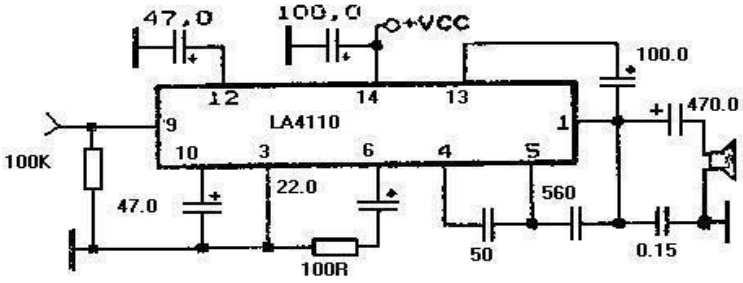


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







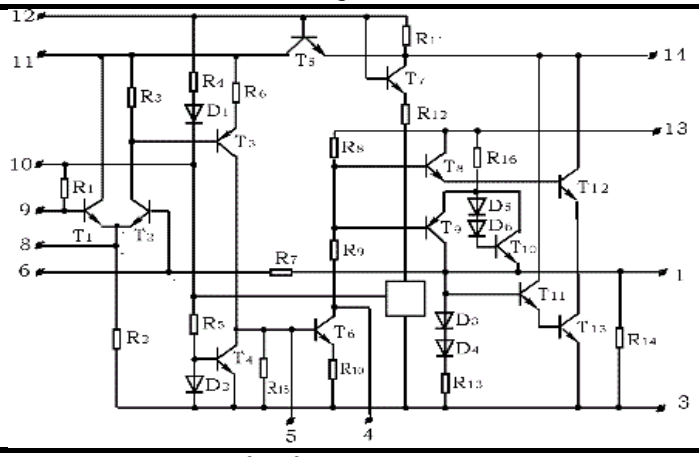
LA4112

2.3 WATT

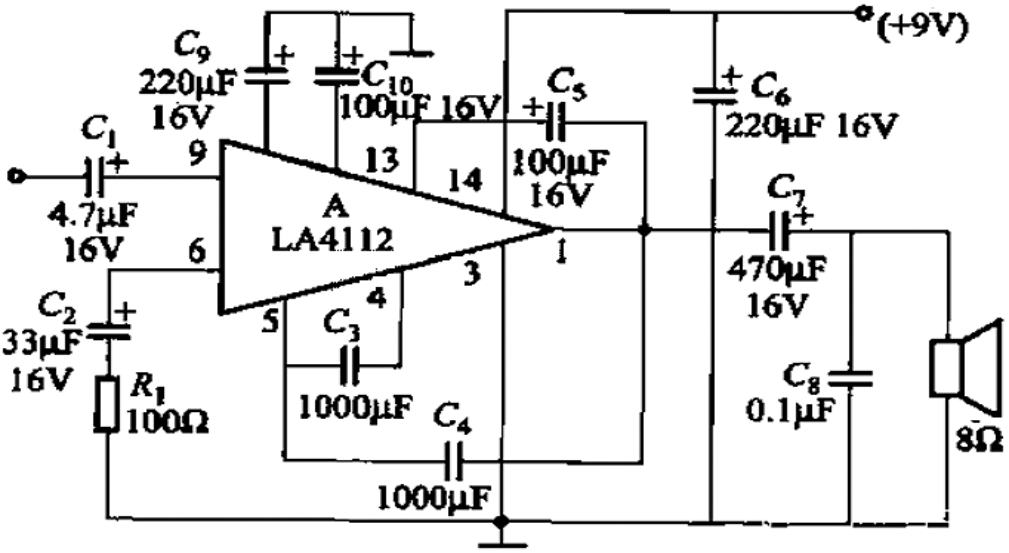
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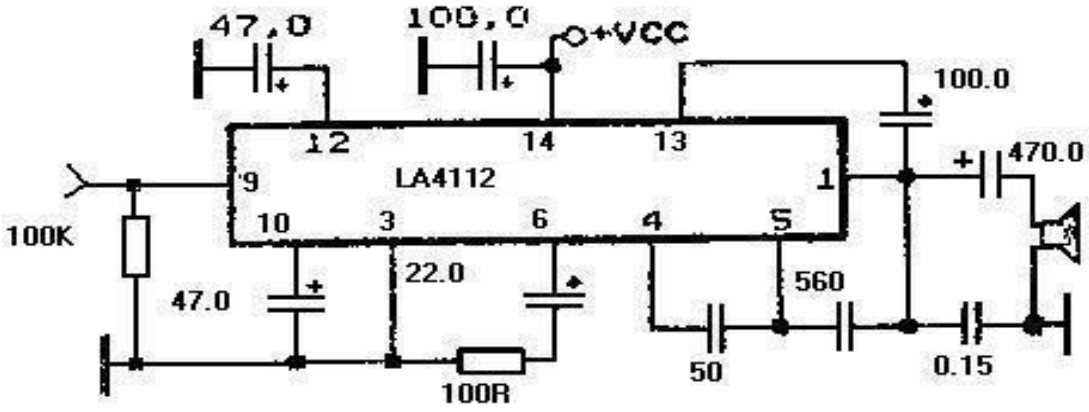


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI





LA4125

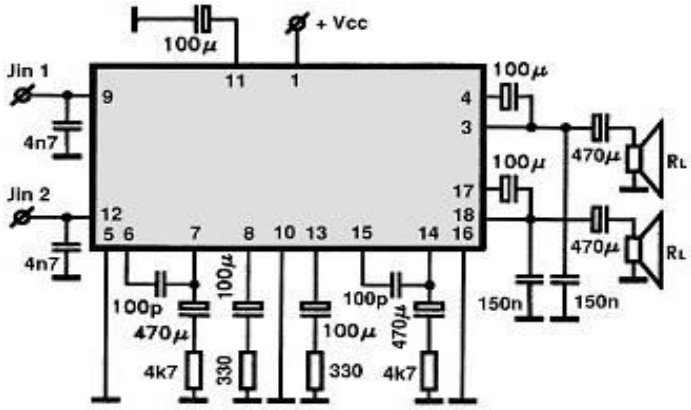
2.4 WATT

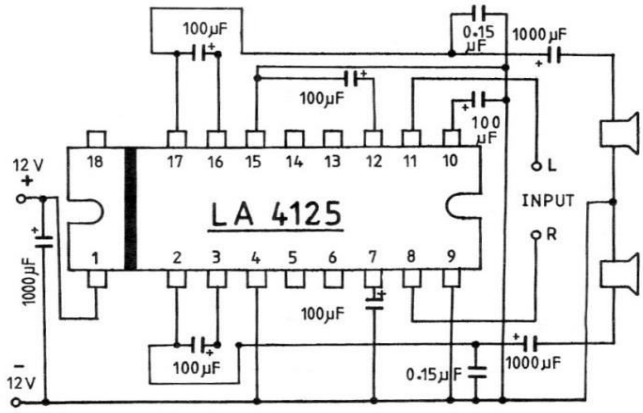
STEREO AMPLİFİKATÖR

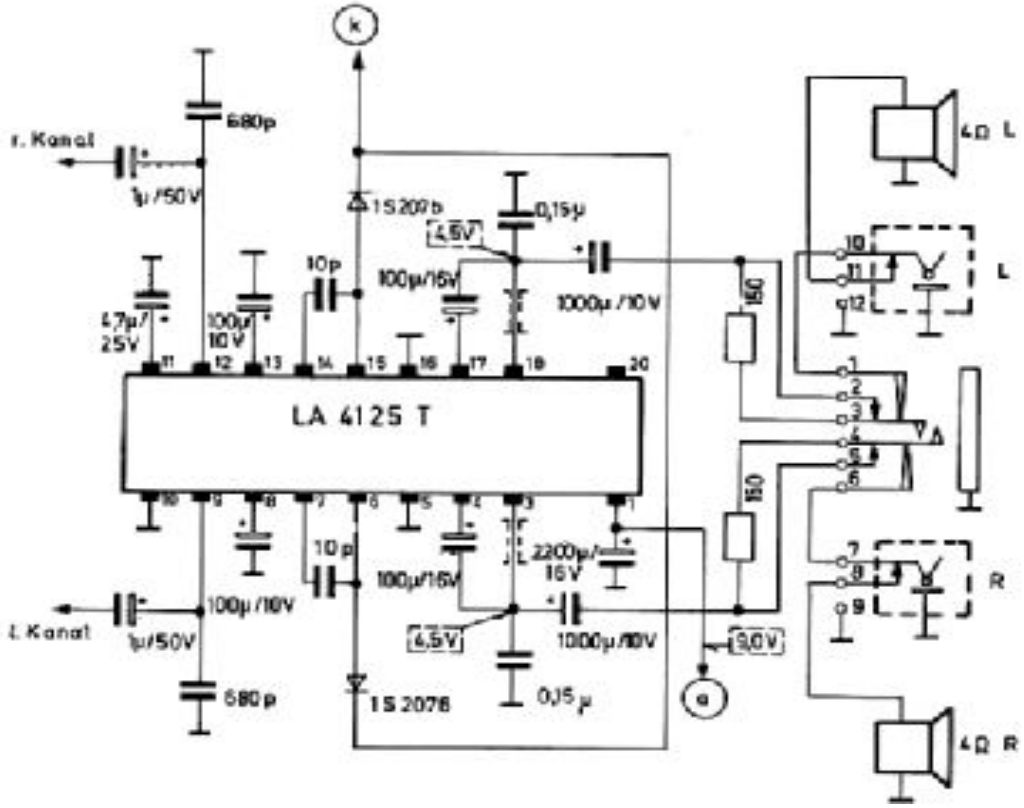


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







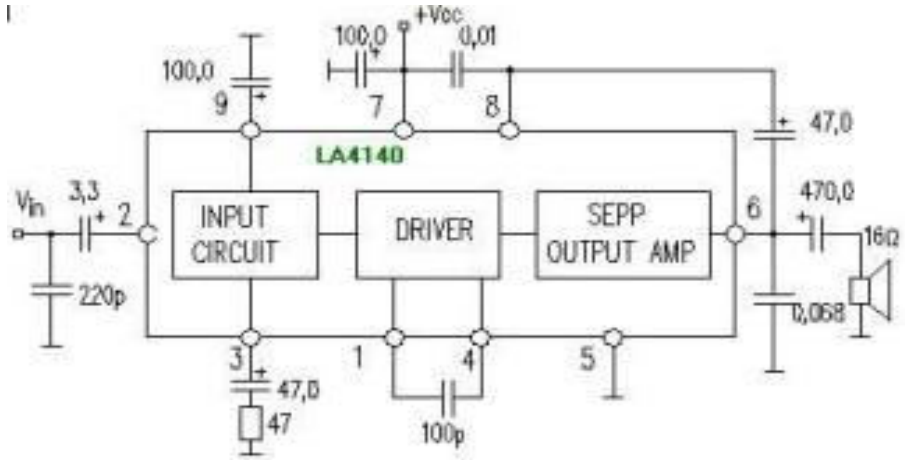
LA4140

0.5WATT

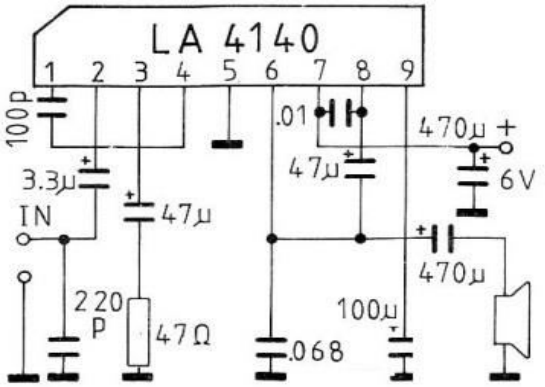
MONO AMPLİFİKATÖR

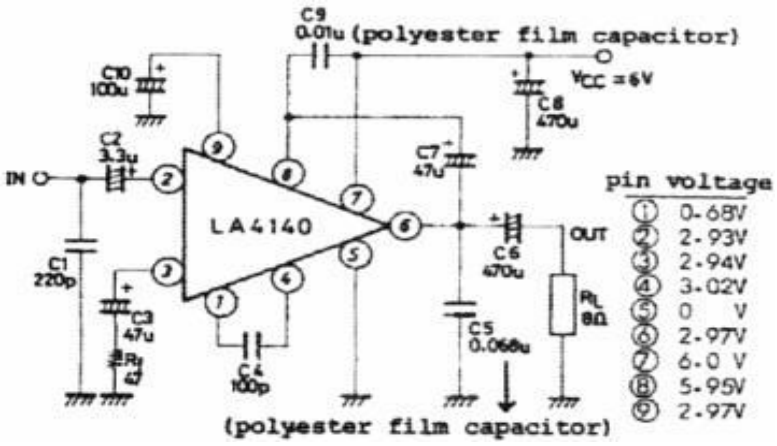


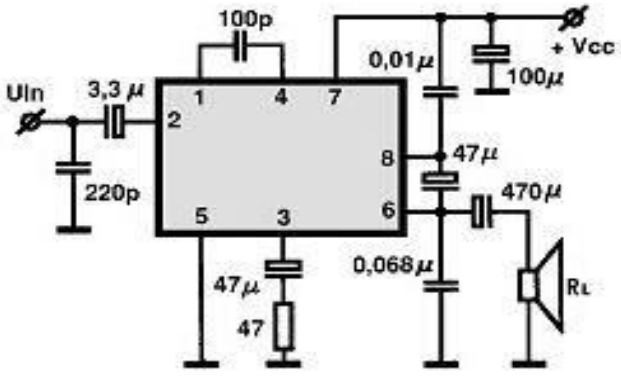
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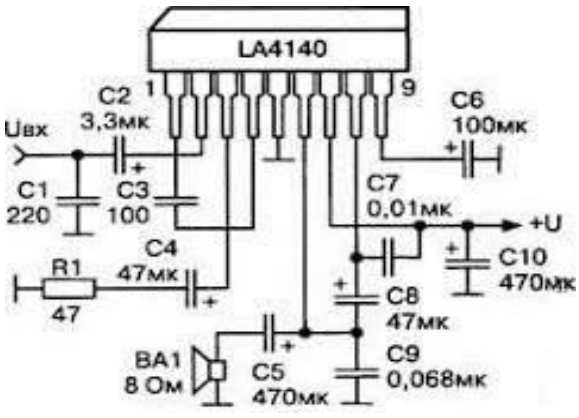


ÇEŞİTLİ DEVRE ŞEMALARI









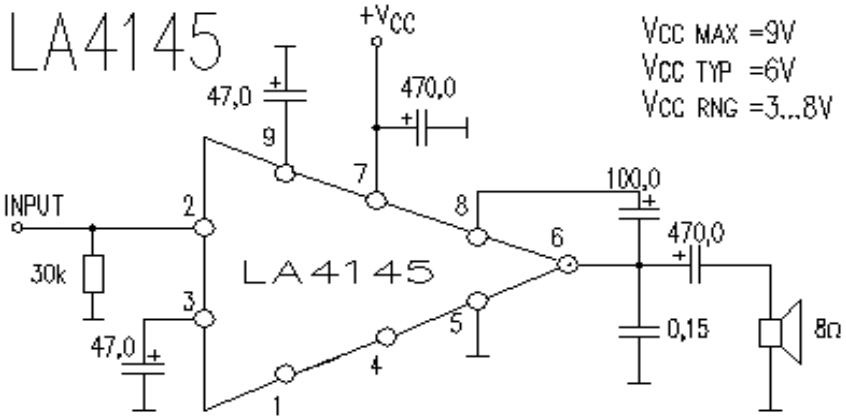
LA4145 / LA4146 / LA 4147

0.9 WATT

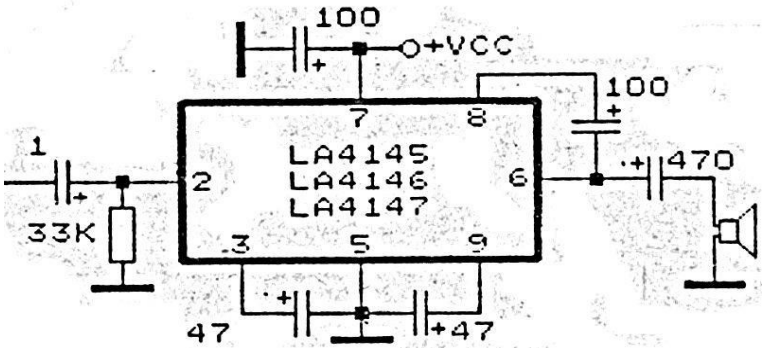
MONO AMPLİFİKATÖR

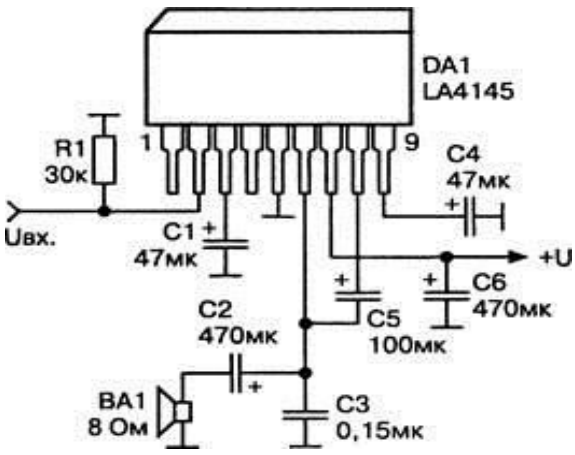


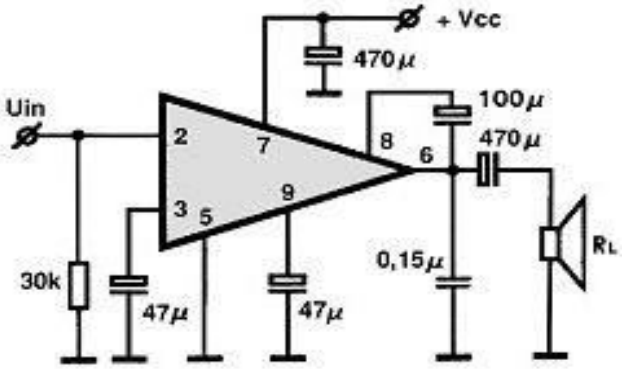
İÇ YAPISI

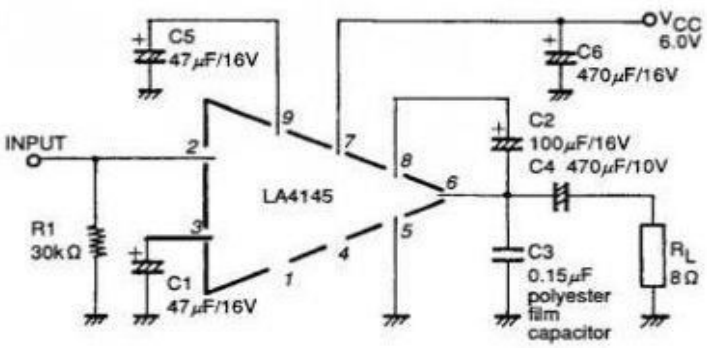


ÇEŞİTLİ DEVRE ŞEMALARI









LA4160

2.2 WATT ÇIKIŞLI

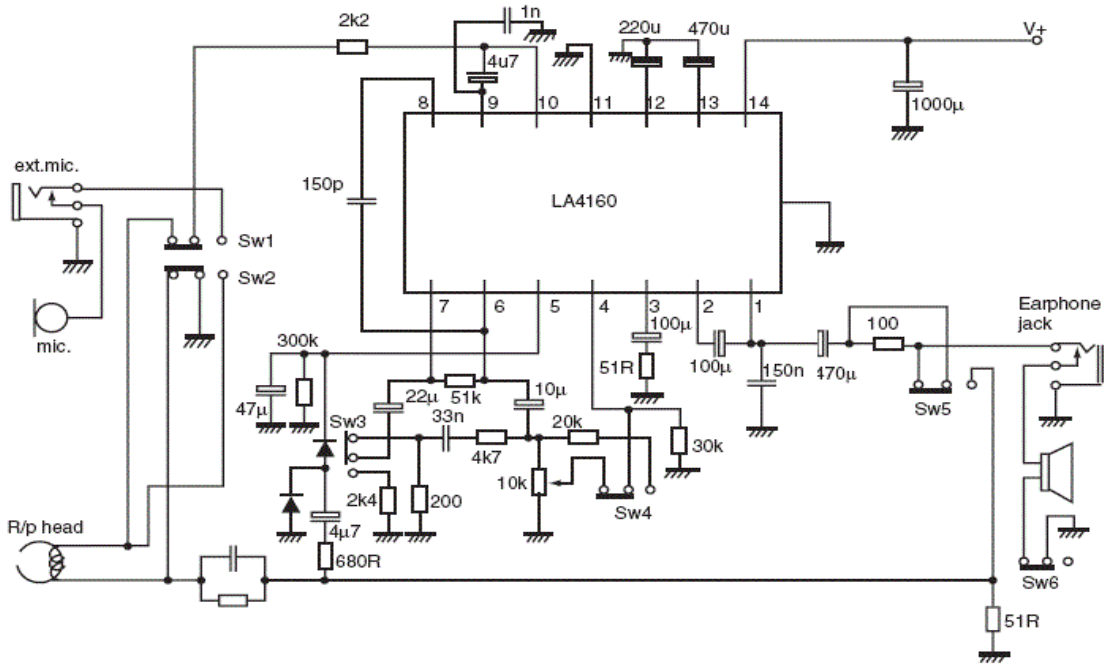
TEYP

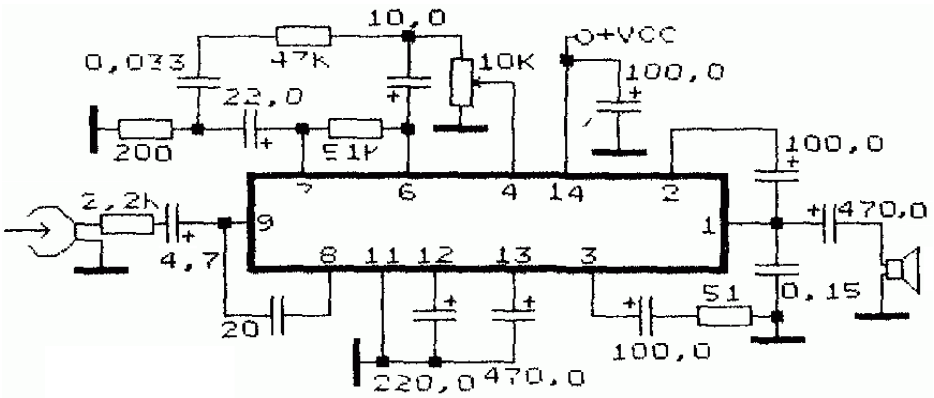


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

TEYP





LA4162

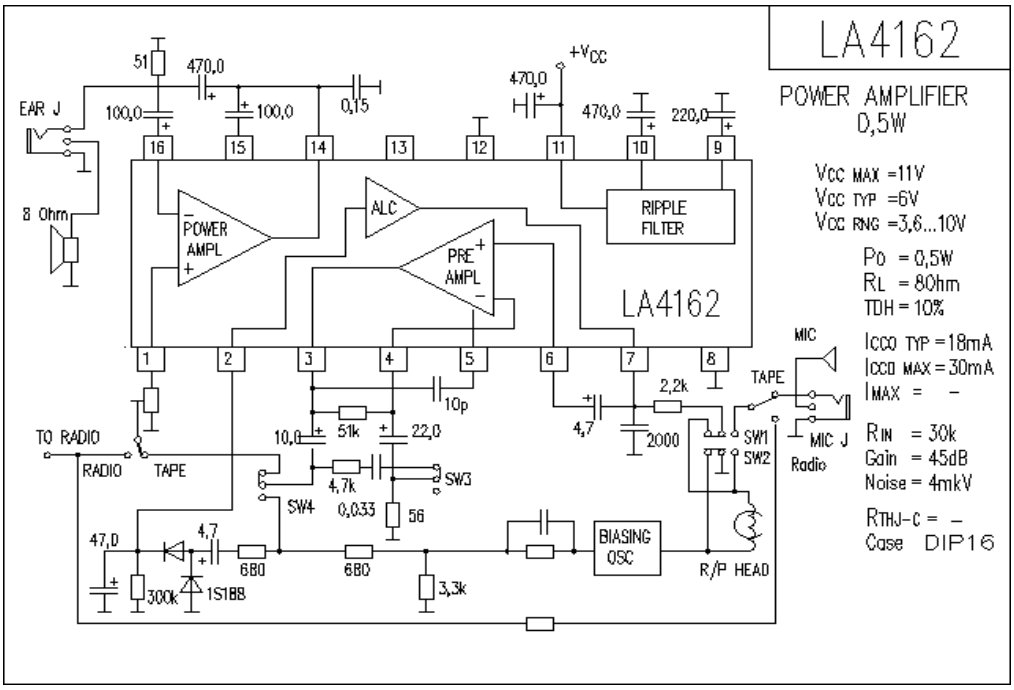
0.5 WATT ÇIKIŞLI

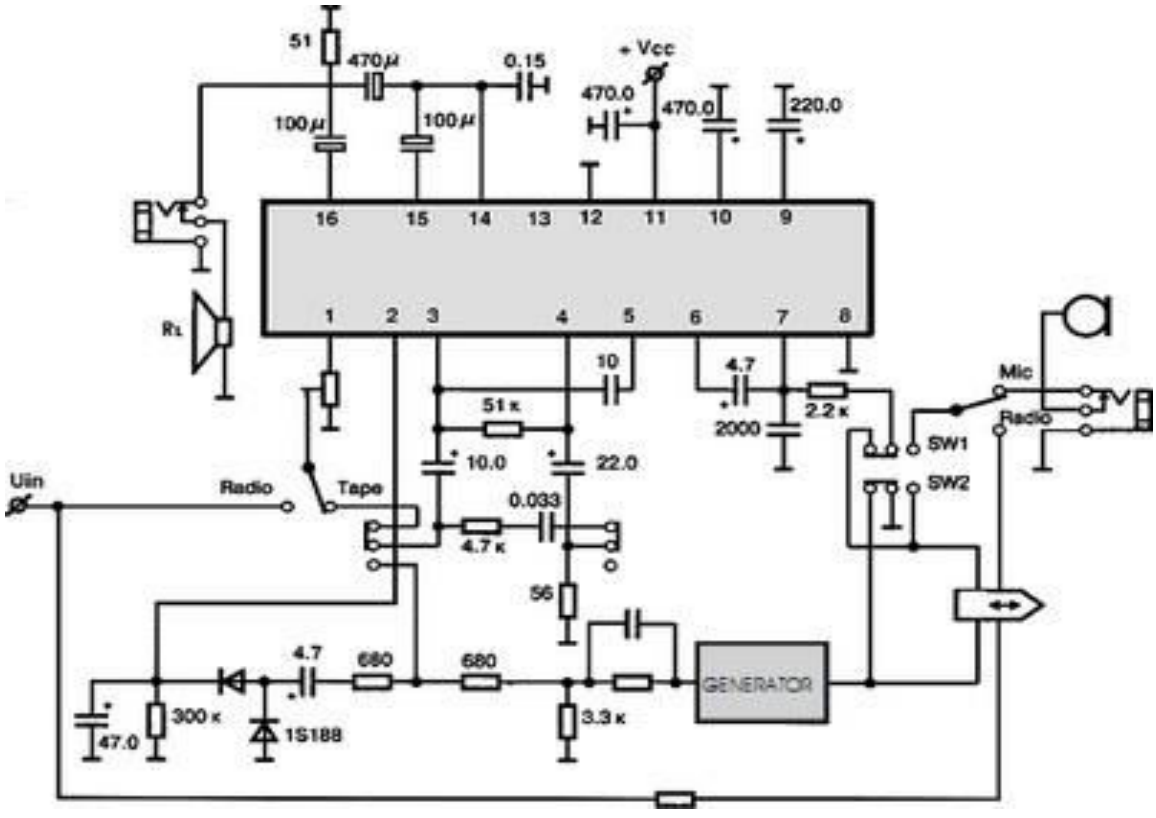
TEYP



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

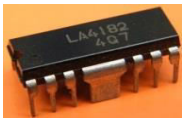




LA4182

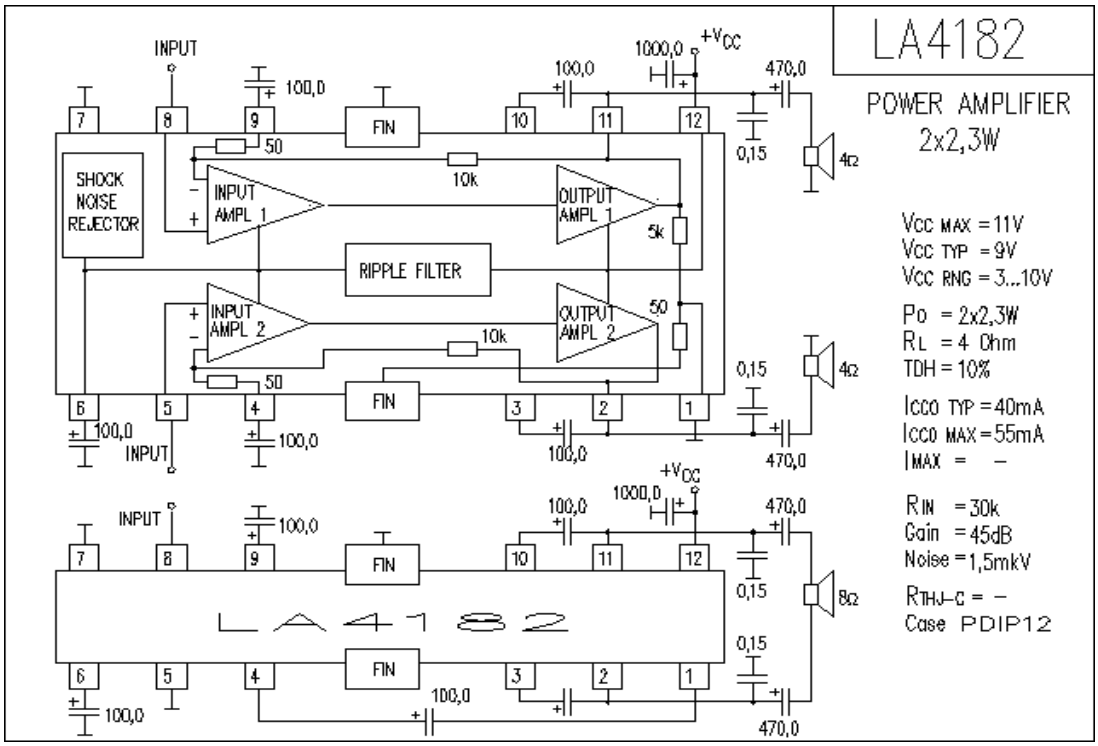
2.3 WATT

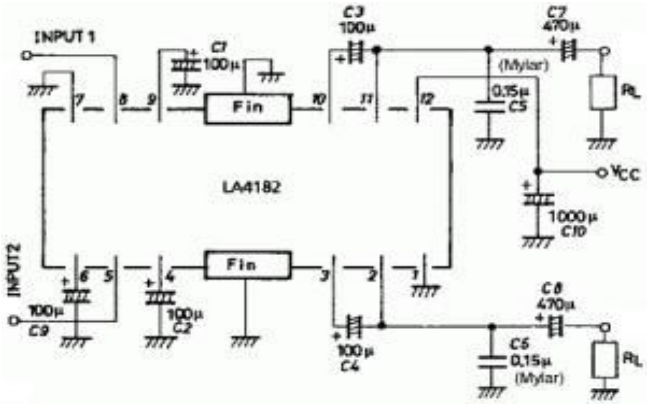
STEREO AMPLİFİKATÖR

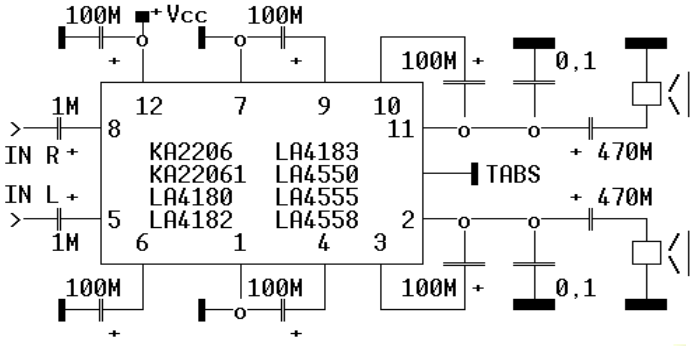


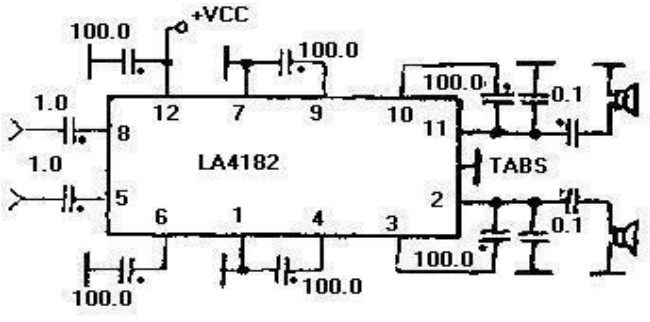
İÇ YAPISI

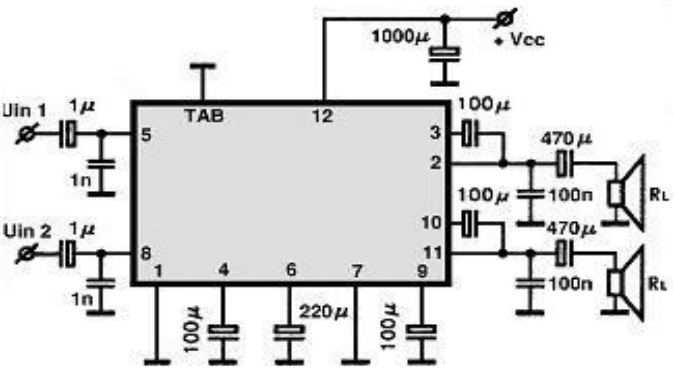
ÇEŞİTLİ DEVRE ŞEMALARI







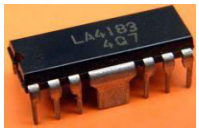




LA4183

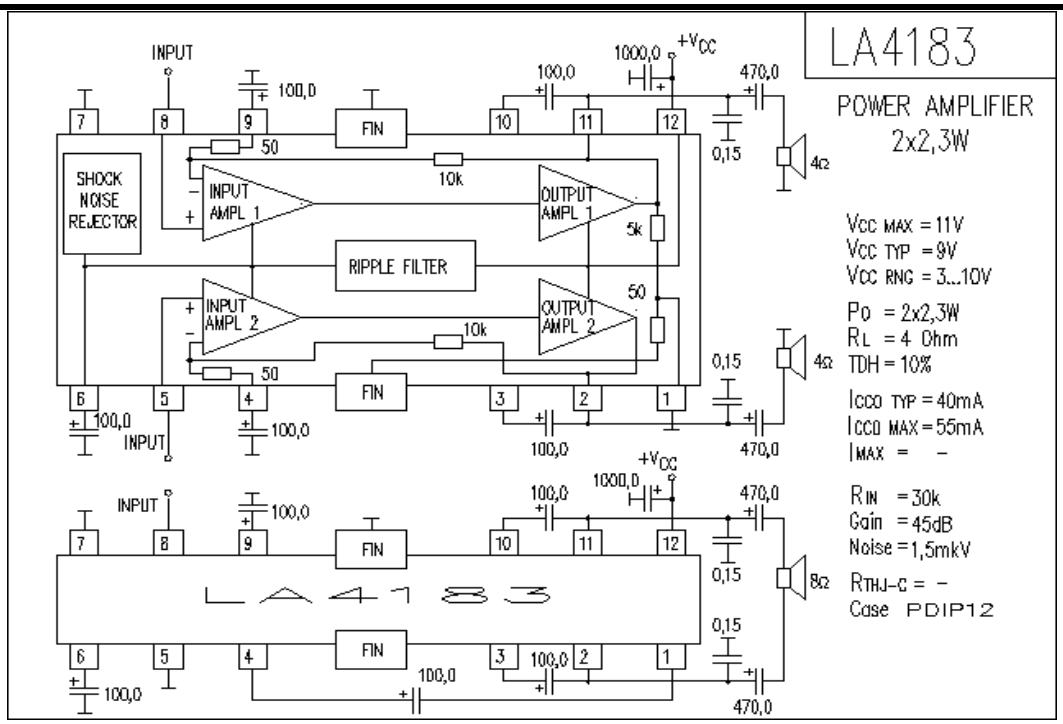
2.3 WATT

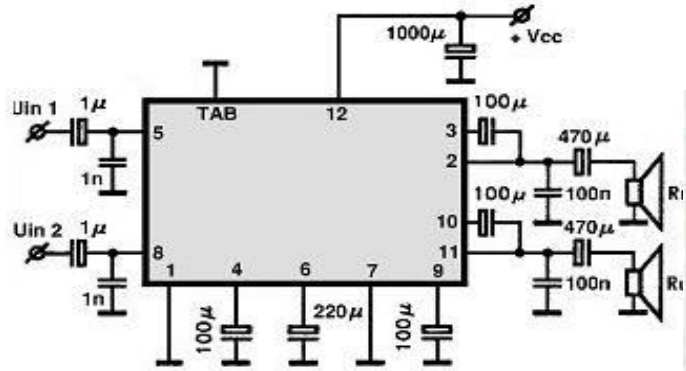
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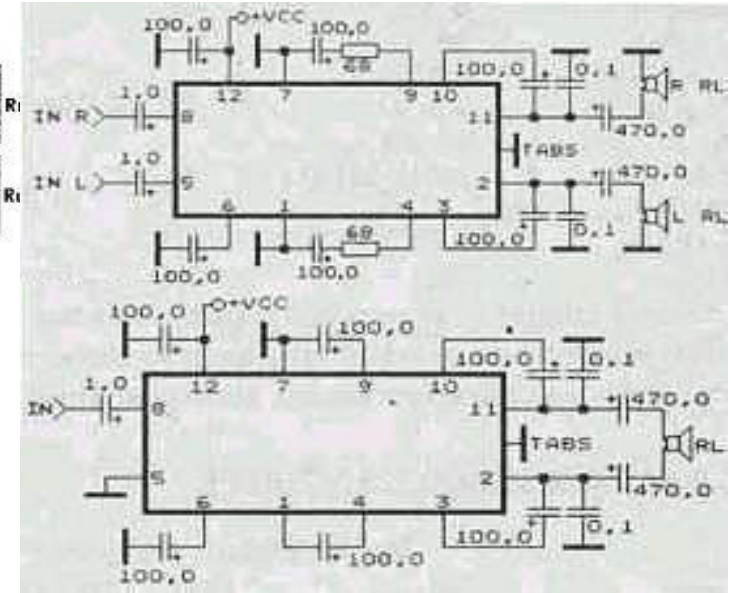


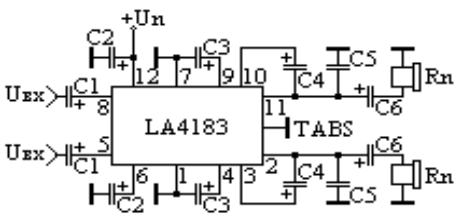
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI









C1 1mk
C2,C3,C4 100mk
C5 0,1mk
C6 470mk
Rn 4R
Un +8...16V
f=30...18000Hz
P=2x2,3W

LA4185

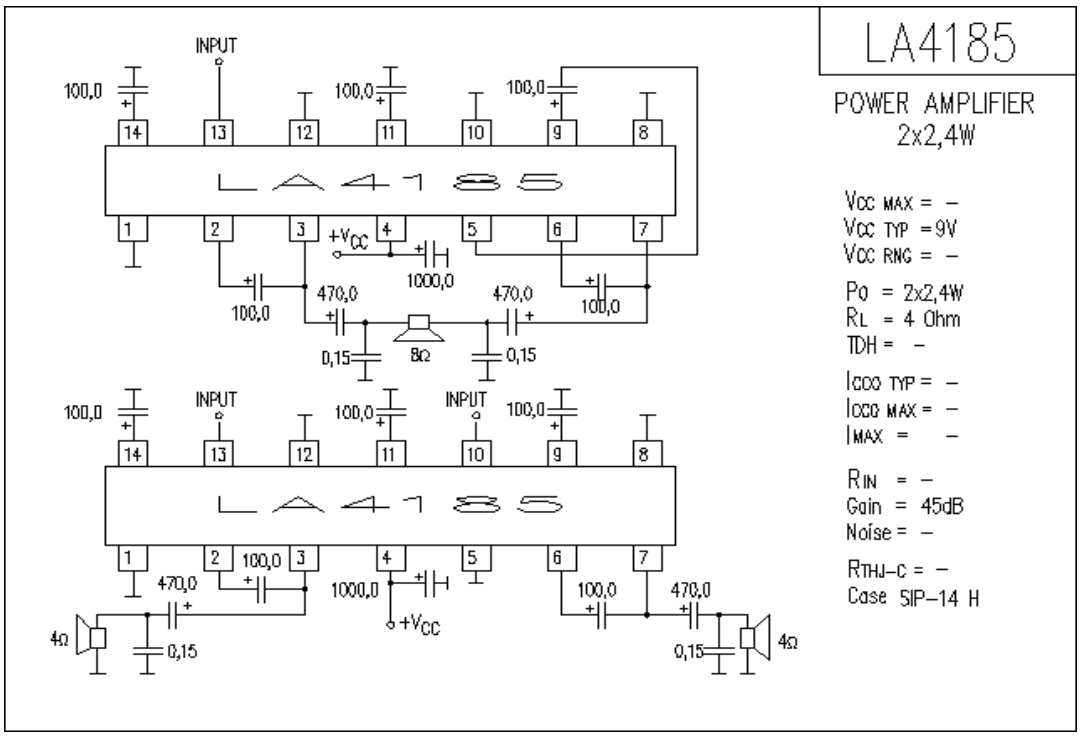
2.4 WATT

STEREO AMPLİFİKATÖR

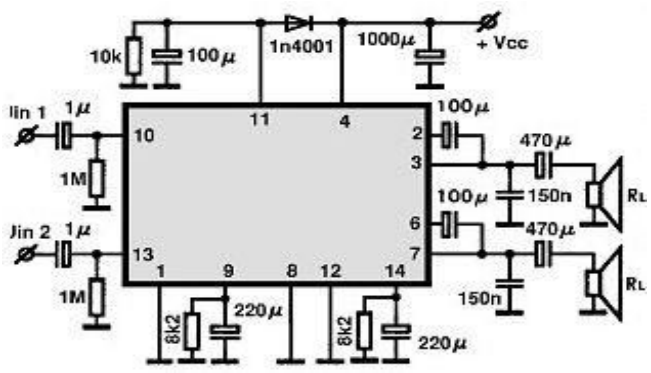


İÇ YAPISI

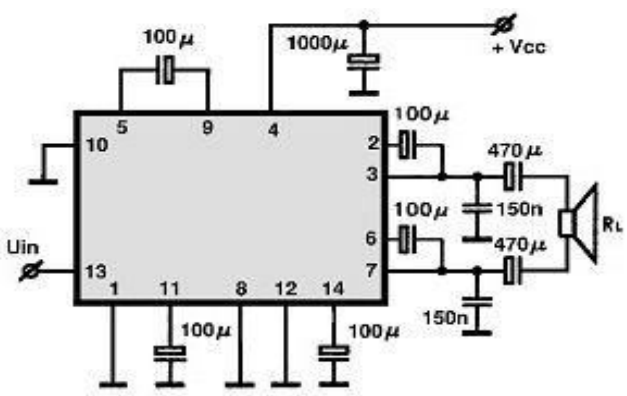
ÇEŞİTLİ DEVRE ŞEMALARI



2.4 WATT STEREO AMPLİFİKATÖR



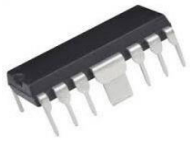
7.7 WATT MONO AMPLİFİKATÖR



LA4190

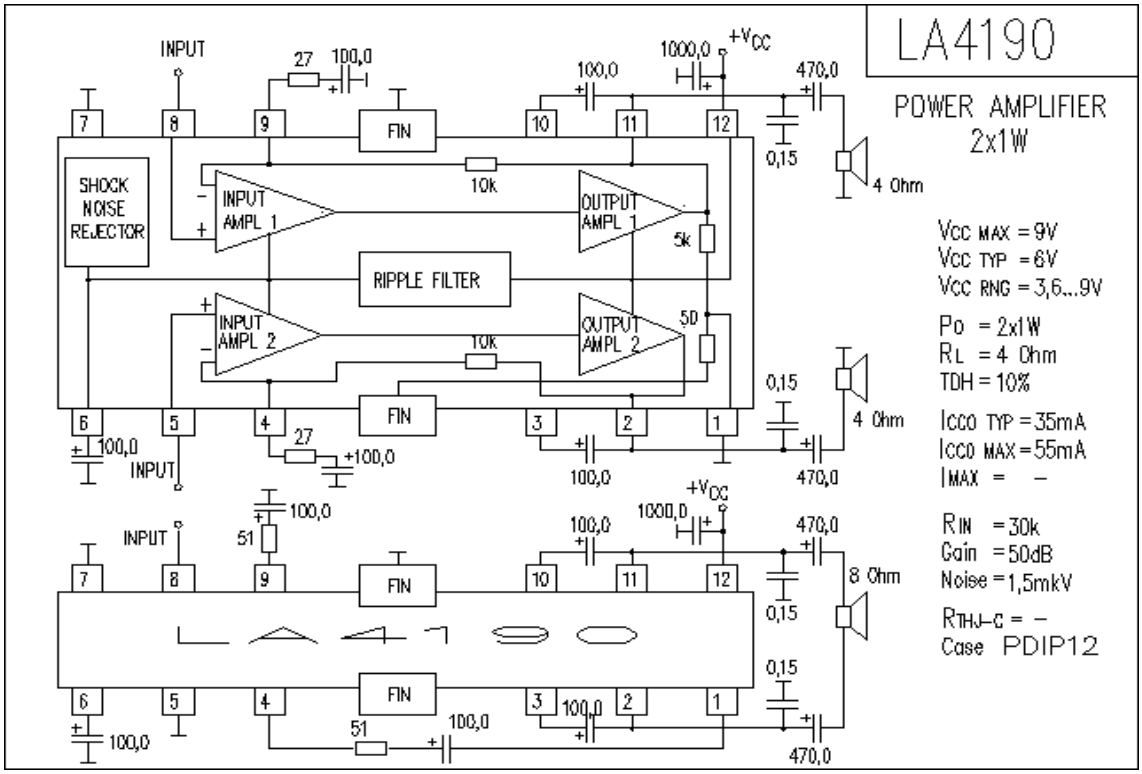
1 WATT

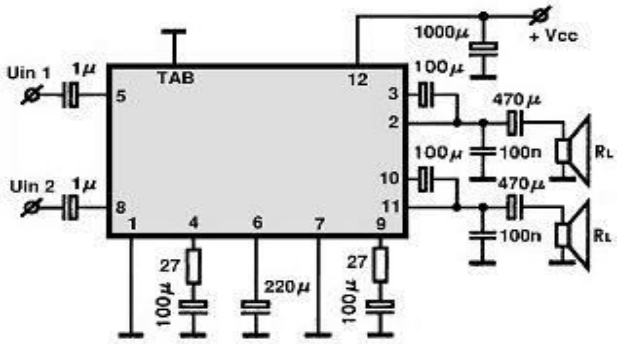
STEREO AMPLİFİKATÖR

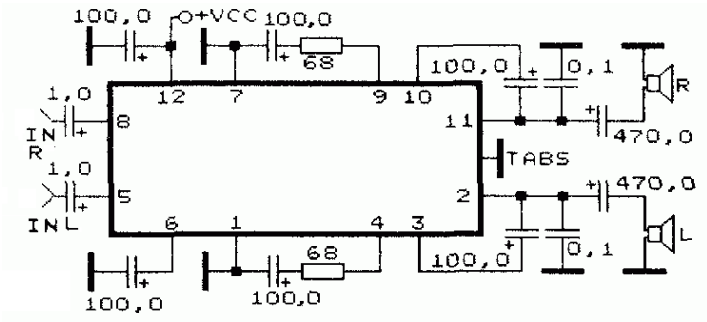


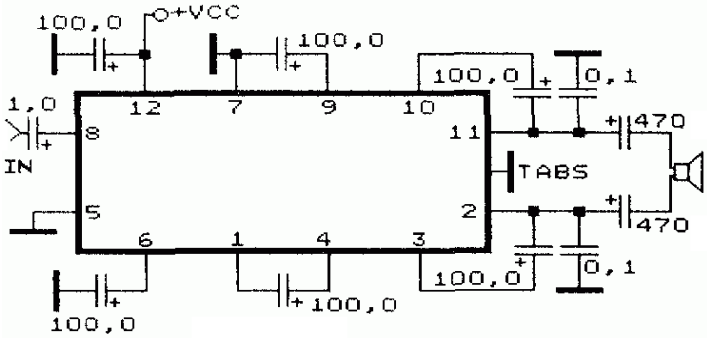
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





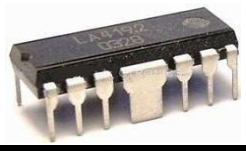




LA4192

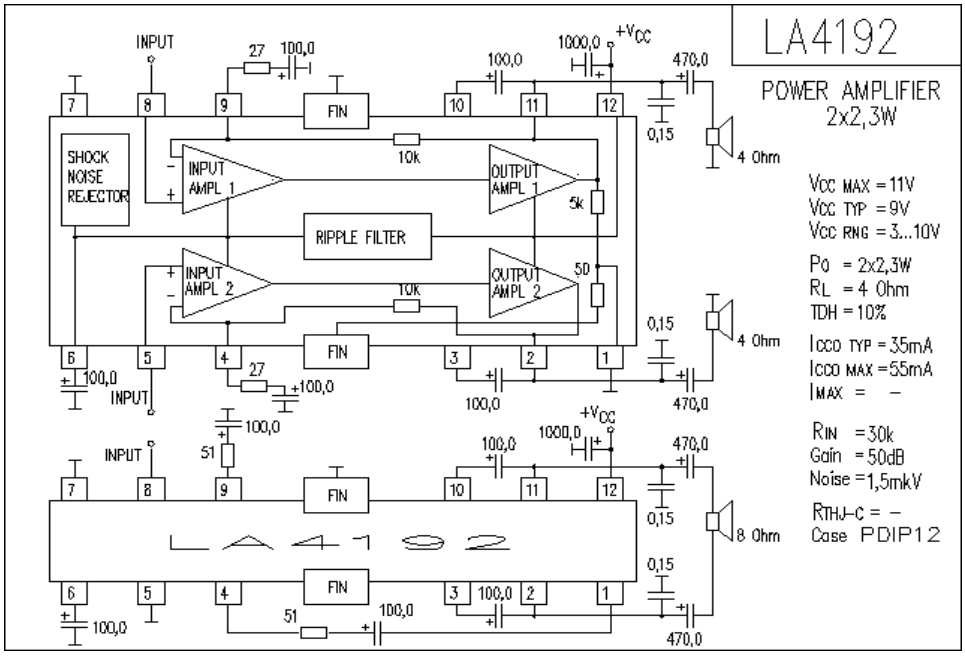
2.3 WATT

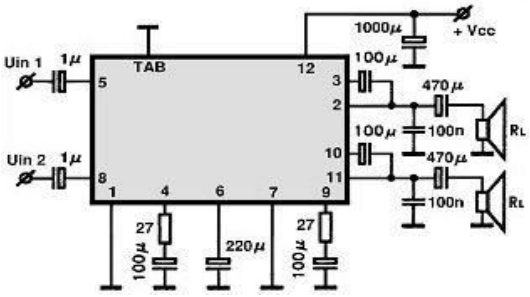
STEREO AMPLİFİKATÖR

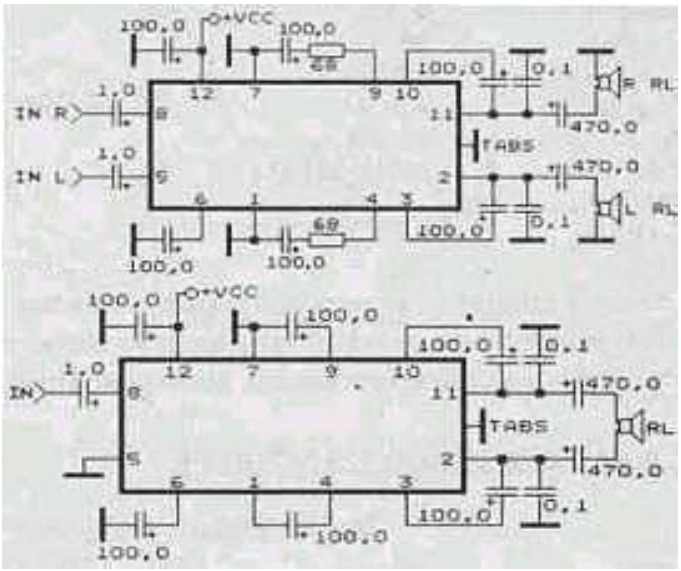


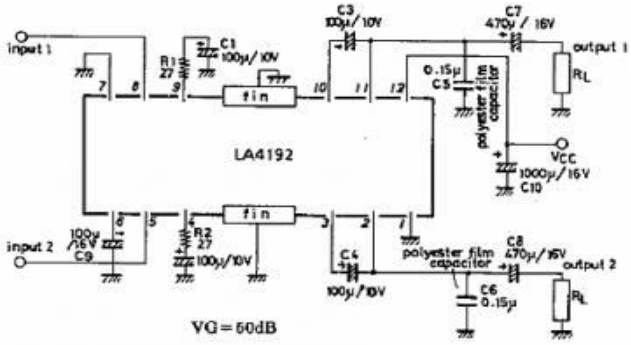
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





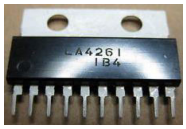




LA4261

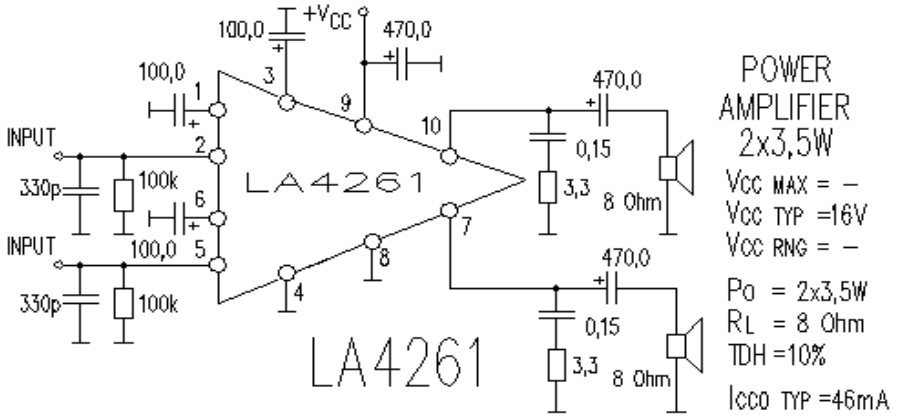
3.5 WATT

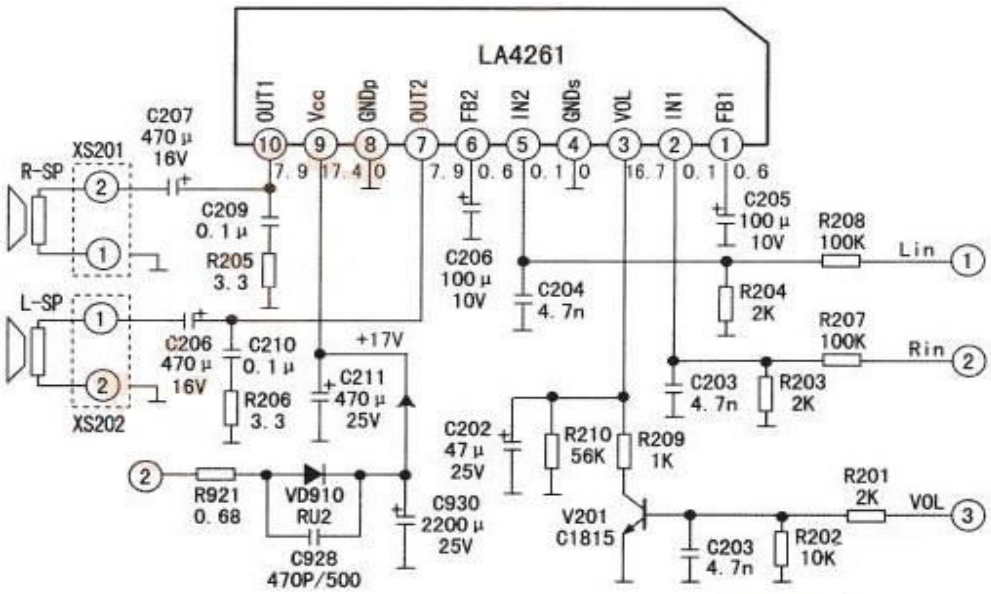
STEREO AMPLİFİKATÖR

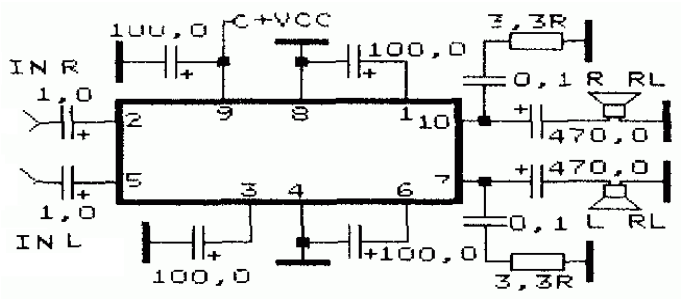


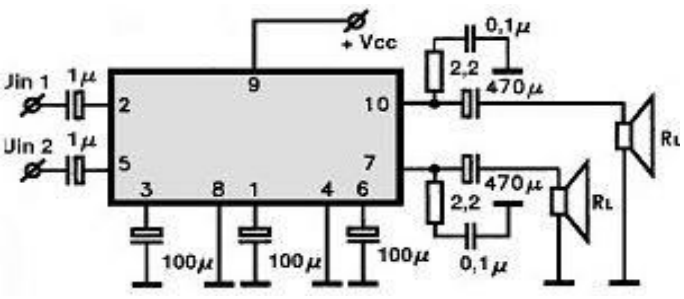
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI









LA4265

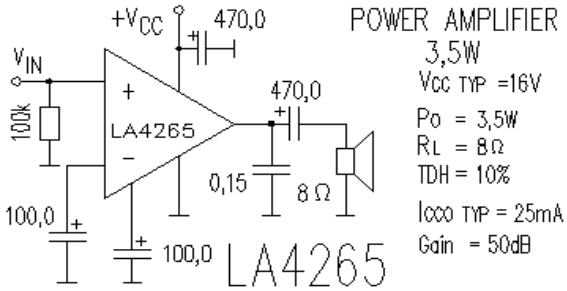
3.5 WATT

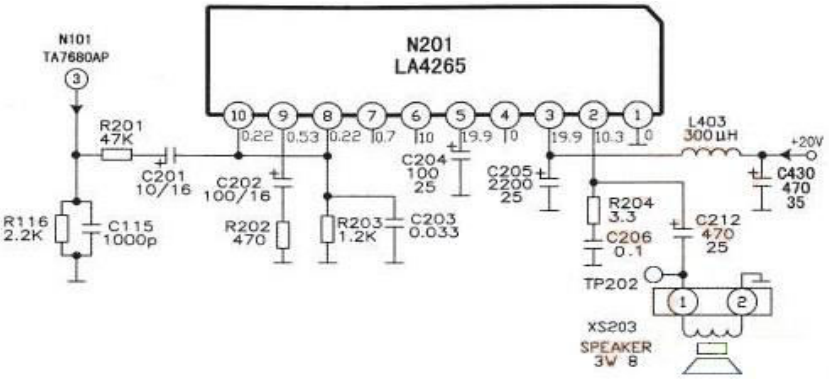
MONO AMPLİFİKATÖR

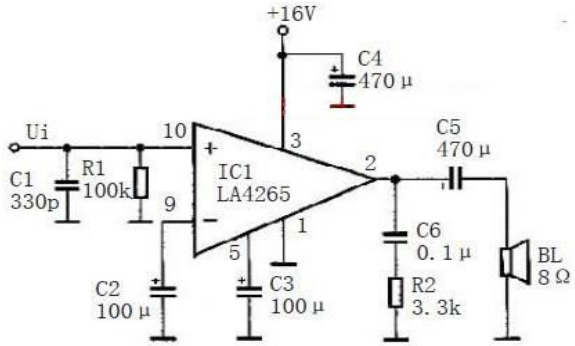


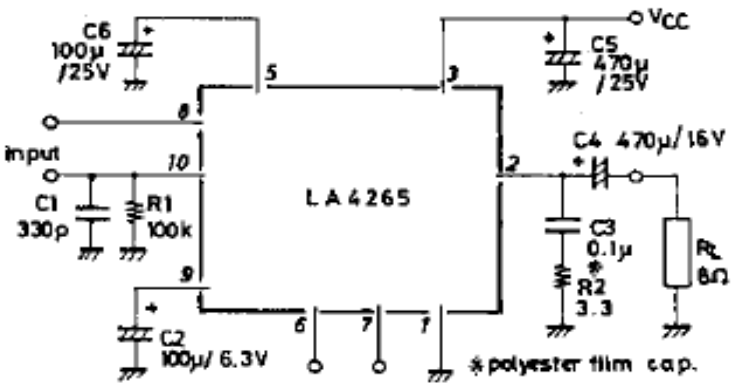
İÇ YAPISI

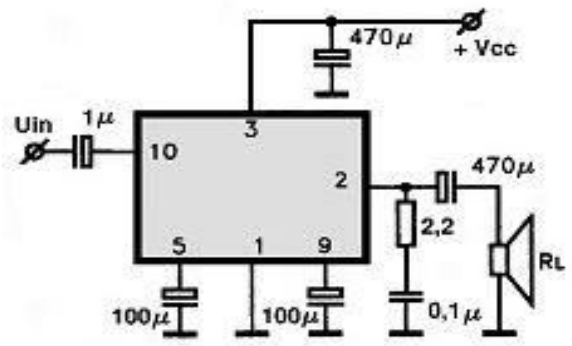
ÇEŞİTLİ DEVRE ŞEMALARI

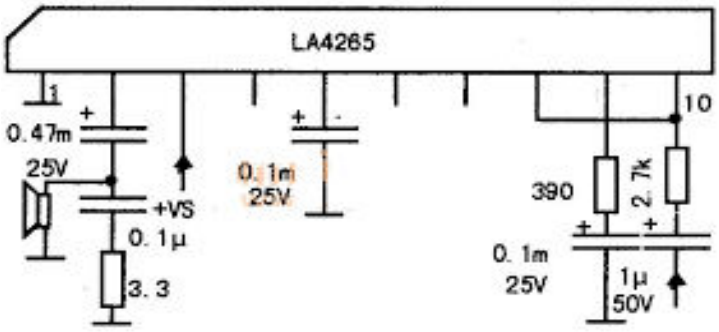












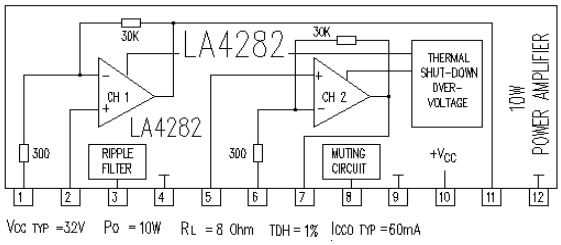
LA4282

10 WATT

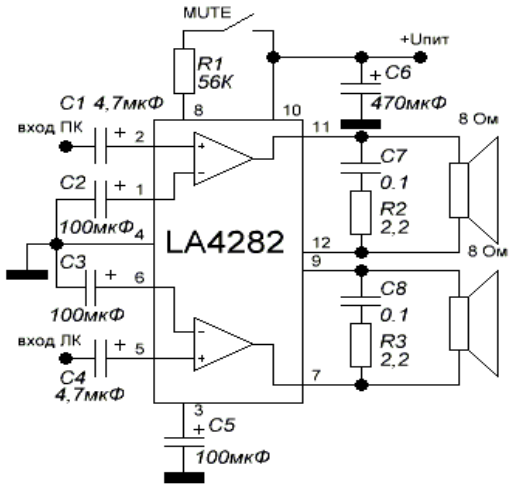
STEREO AMPLİFİKATÖR

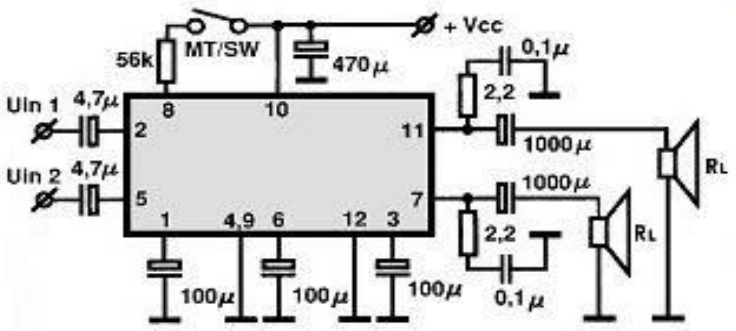


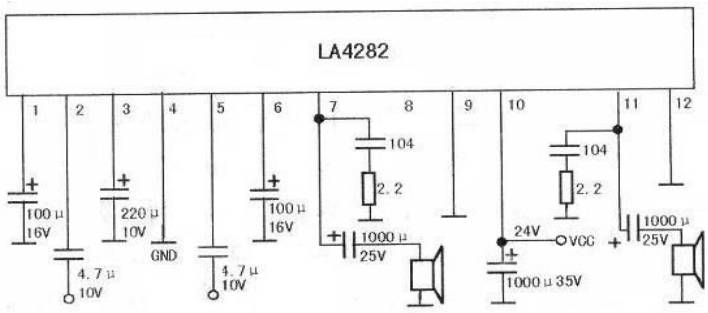
İÇ YAPISI

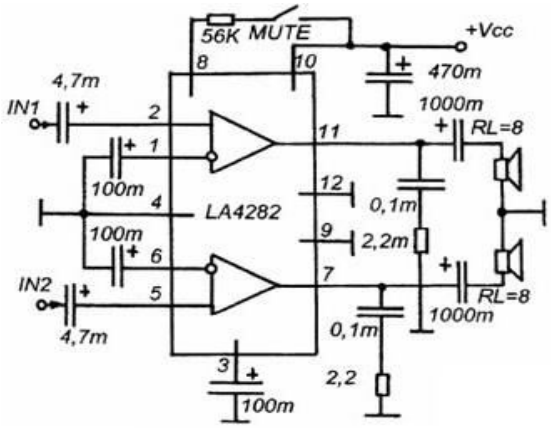


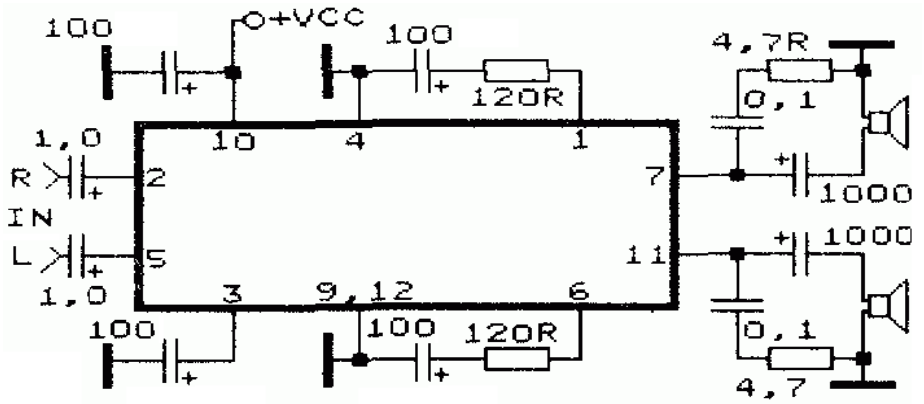
ÇEŞİTLİ DEVRE ŞEMALARI











LA4422

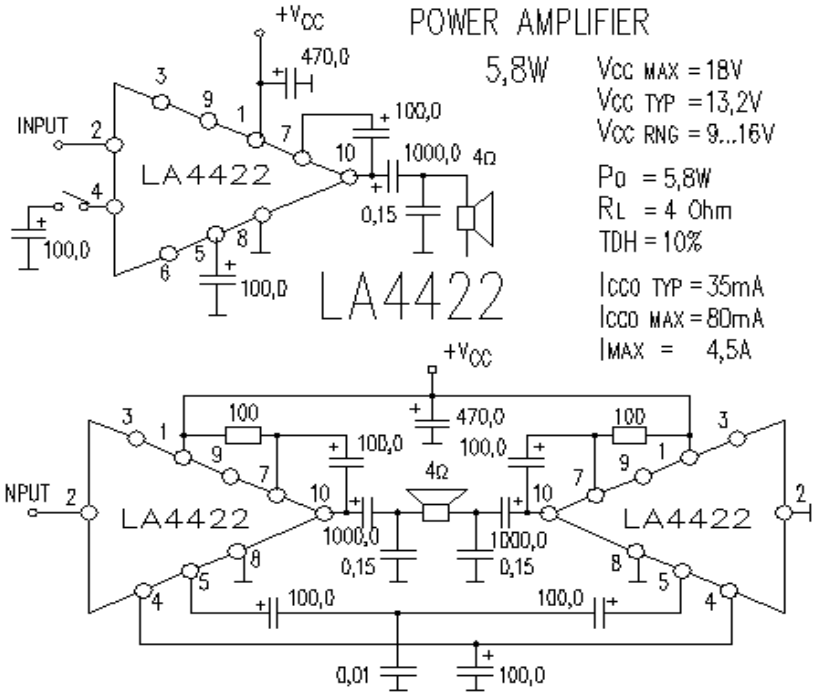
5.8 WATT

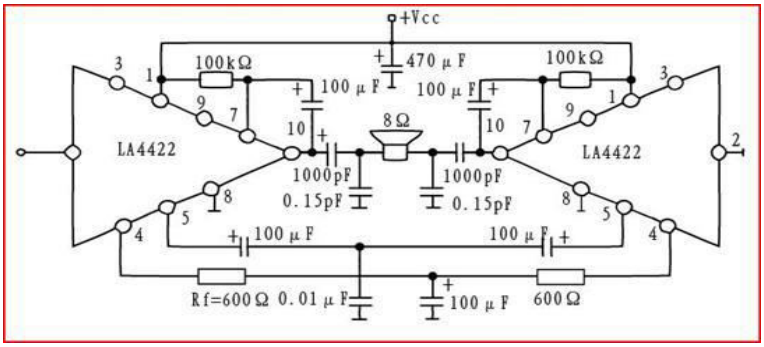
AMPLİFİKATÖR

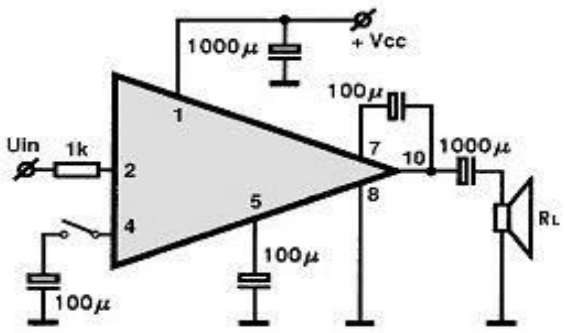


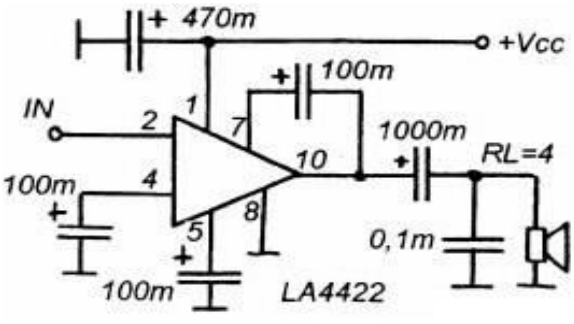
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





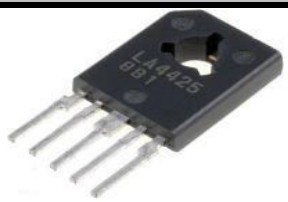




LA4425A

5 WATT

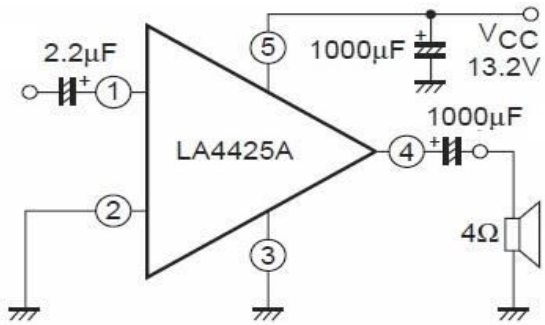
MONO AMPLİFİKATÖR

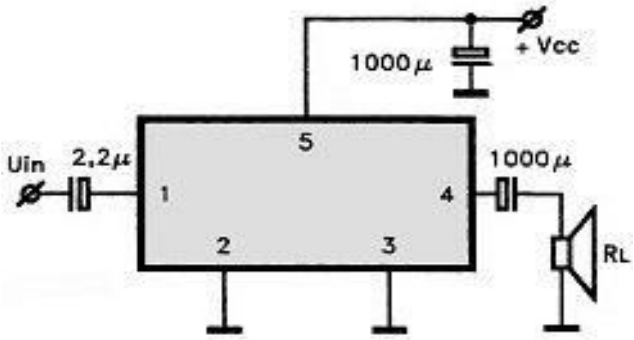


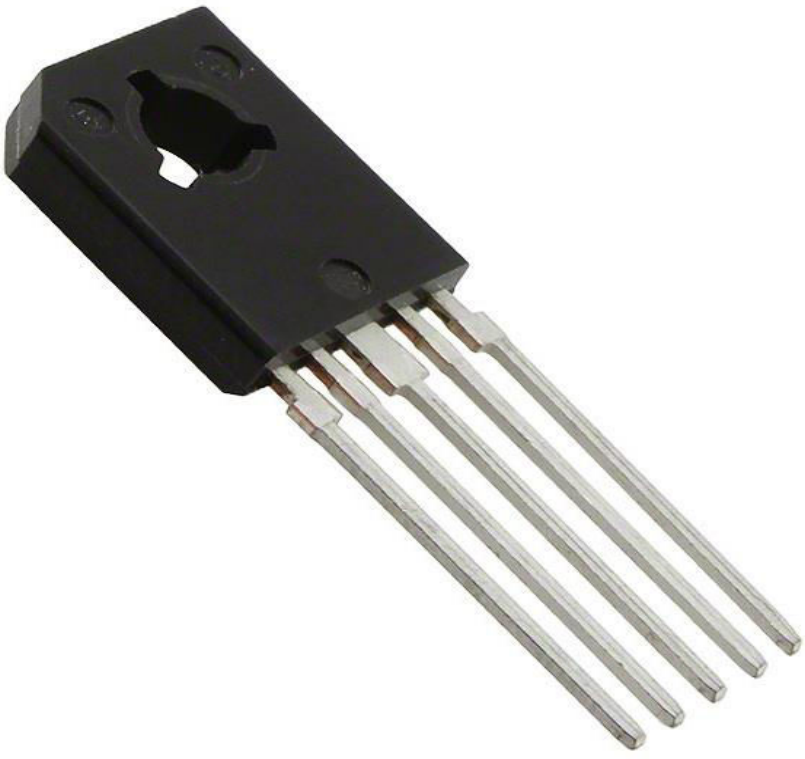
İÇ YAPISI

U_{ccmin}	5 V
U_{ccmax}	16 V
$I_{cc0}(U_{in}=0)$	65 mA
$P_{out}(12V/4\Omega)$	5 W
R_{in}	120 KΩ
A_u	42 dB

ÇEŞİTLİ DEVRE ŞEMALARI







LA4430

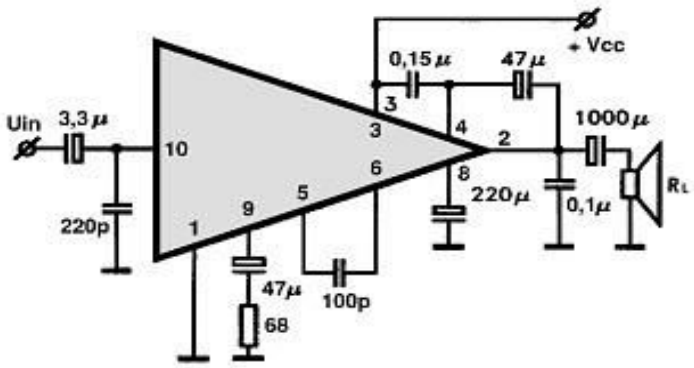
4.5 WATT

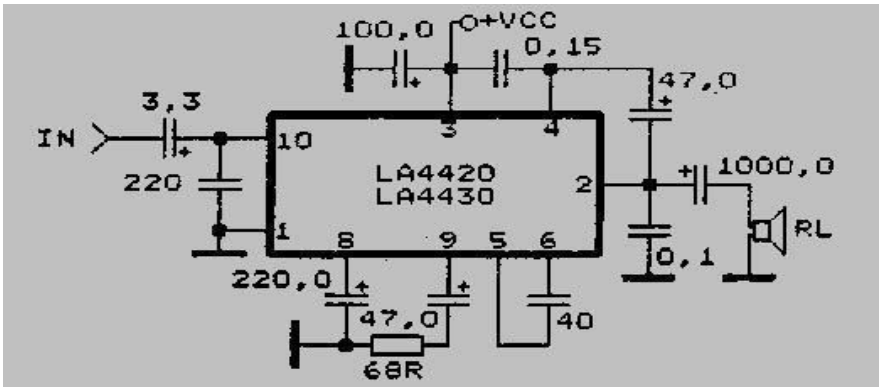
MONO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





LA4440

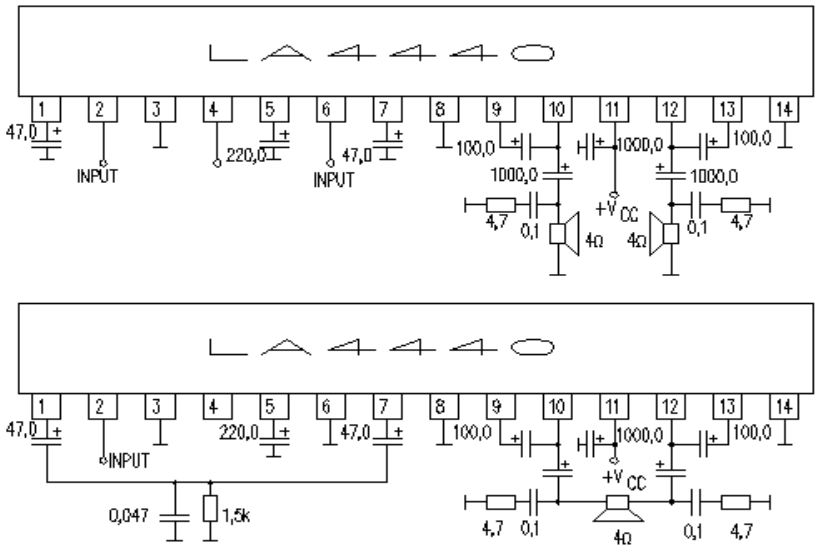
6 WATT

STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



LA4440

POWER AMPLIFIER

2x6W

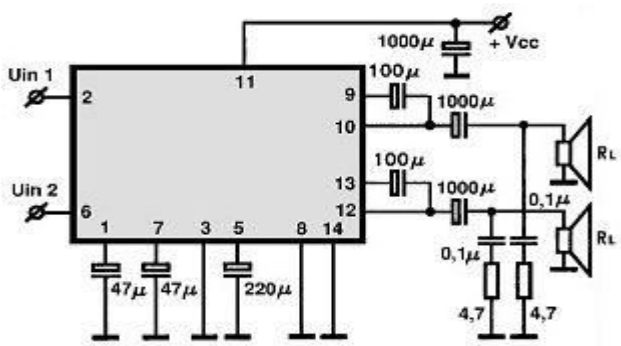
$V_{CC\ MAX}$ =18V
$V_{CC\ TYP}$ =13,2V
$V_{CC\ RNG}$ =8...18V

P_O =2x6W
R_L =4 Ohm
THD =10%

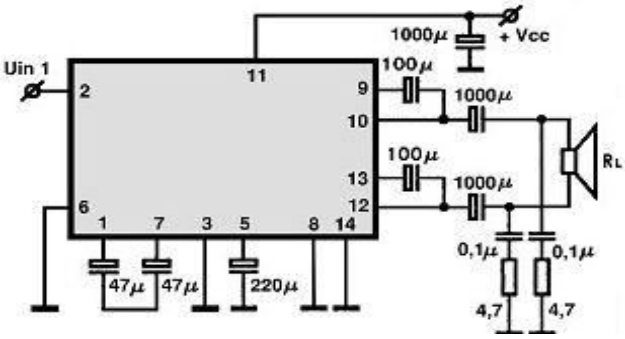
$I_{CCO\ TYP}$ =100mA
$I_{CCO\ MAX}$ =200mA
I_{MAX} = –

R_{IN} = 30k
Gain = 51,5dB
Noise = 1,5mkV

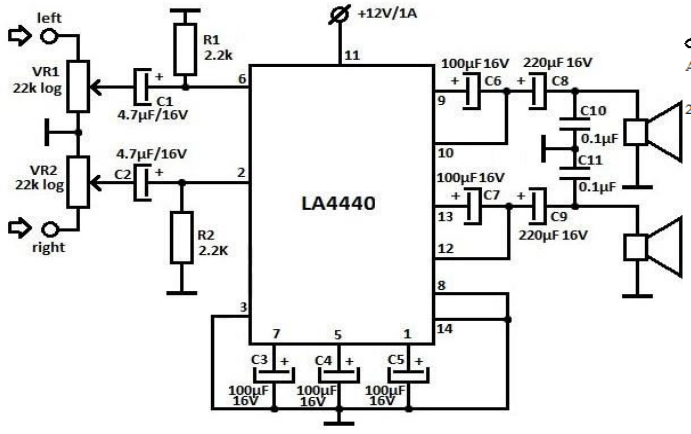
6 WATT STEREO AMPLİFİKATÖR



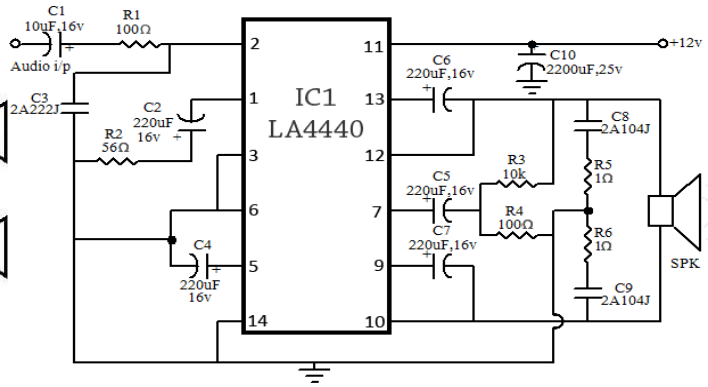
19 WATT MONO AMPLİFİKATÖR



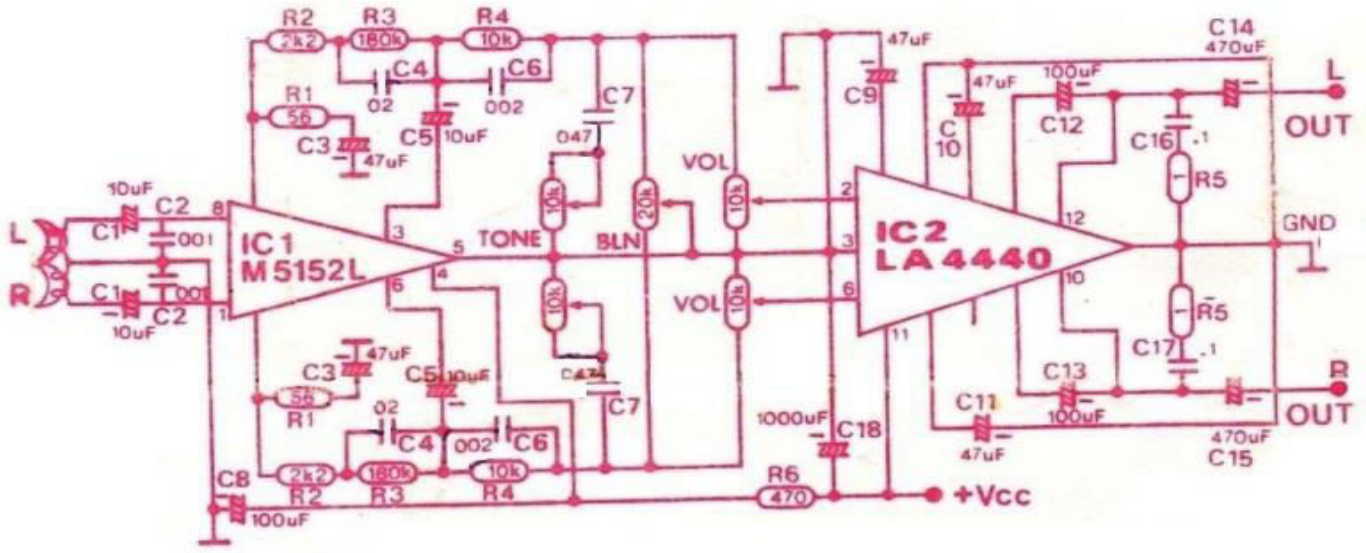
6 WATT STEREO AMPLİFİKATÖR



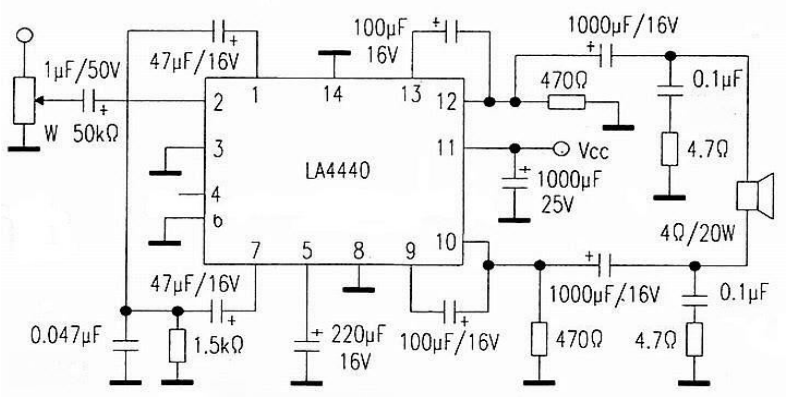
19 WATT MONO AMPLİFİKATÖR



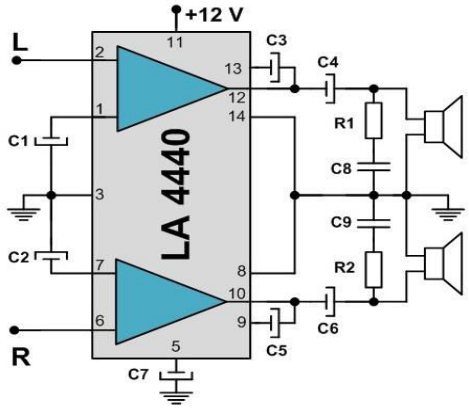
STEREO 6 WATT ÇIKIŞLI TEYP



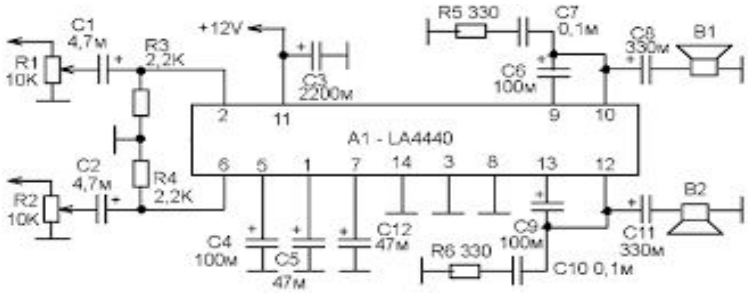
19 WATT MONO AMPLİFİKATÖR



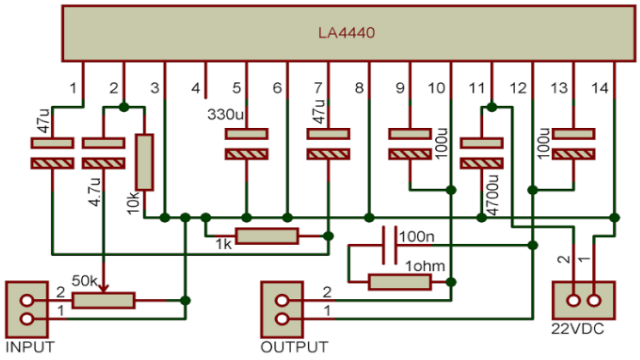
6 WATT STEREO AMPLİFİKATÖR



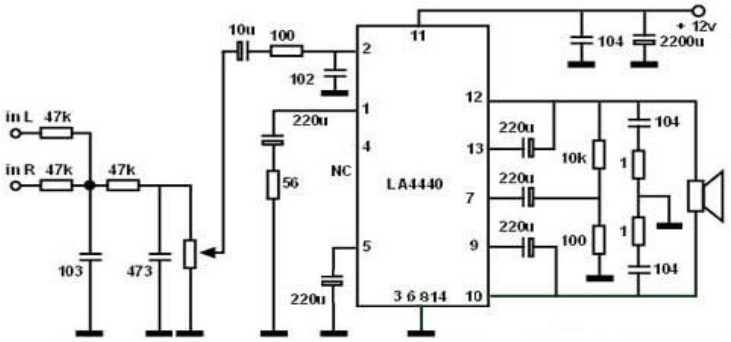
6 WATT STEREO AMPLİFİKATÖR



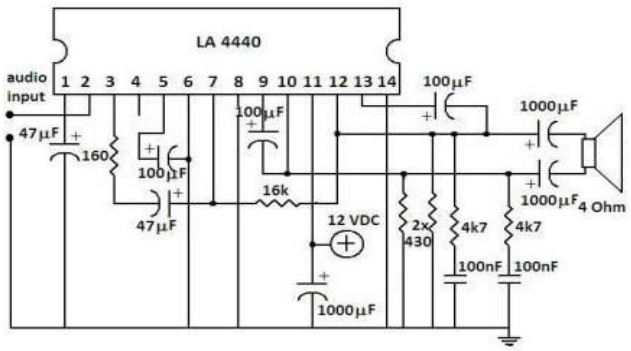
19 WATT MONO AMPLİFİKATÖR



19 WATT MONO AMPLİFİKATÖR



19 WATT MONO AMPLİFİKATÖR



LA4445

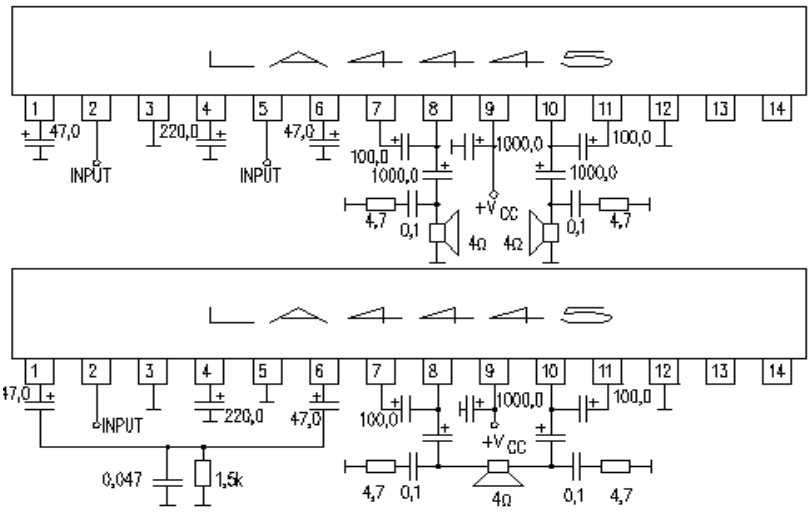
5.5 WATT

STEREO AMPLİFİKATÖR



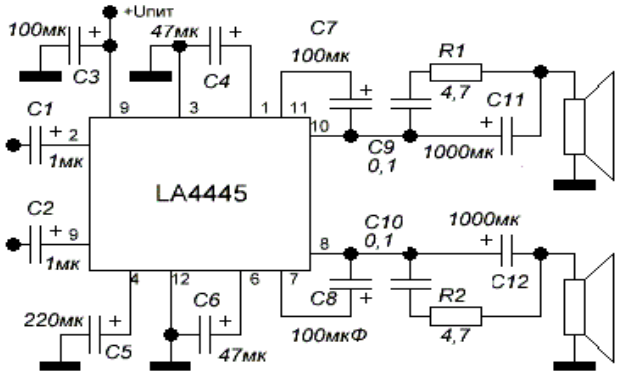
İÇ YAPISI

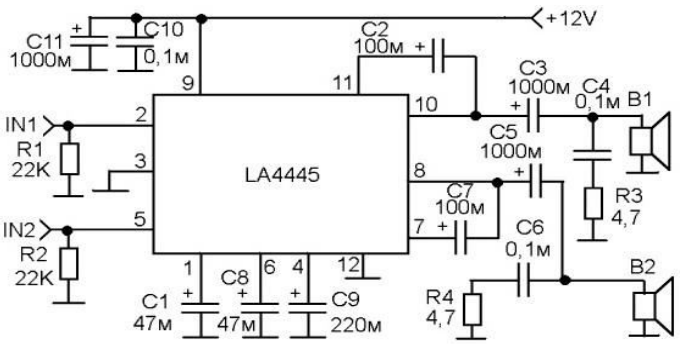
ÇEŞİTLİ DEVRE ŞEMALARI

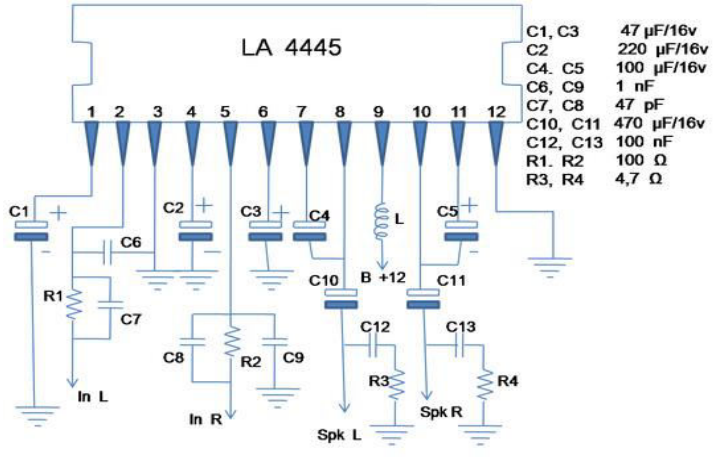


POWER AMPLIFIER 2x5,5W

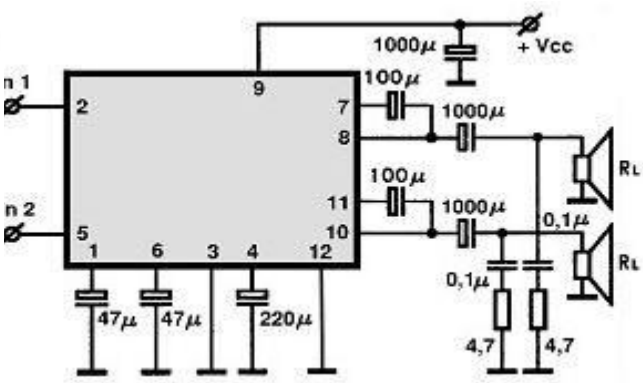
Vcc MAX =18V	Po =2x5,5W	Icco TYP =75mA	RIN = 30k
Vcc TYP =13,2V	RL =4 Ohm	Icco MAX =150mA	Gain = 51,5dB
Vcc RNG =10...16V	TDH =10%	IMAX = 3,5A	Noise = 1,5mkV







C1, C3	47 µF/16v
C2	220 µF/16v
C4. C5	100 µF/16v
C6, C9	1 nF
C7, C8	47 pF
C10, C11	470 µF/16v
C12, C13	100 nF
R1. R2	100 Ω
R3, R4	4,7 Ω



LA4446

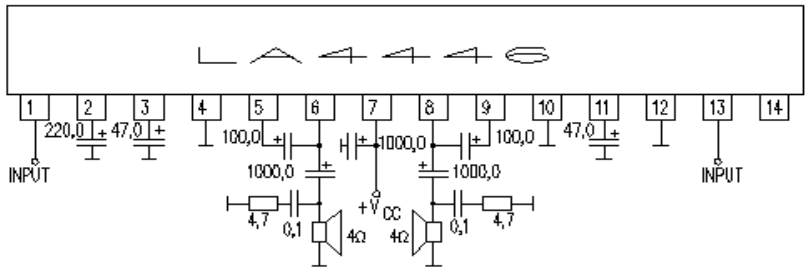
5.5 WATT

STEREO AMPLİFİKATÖR



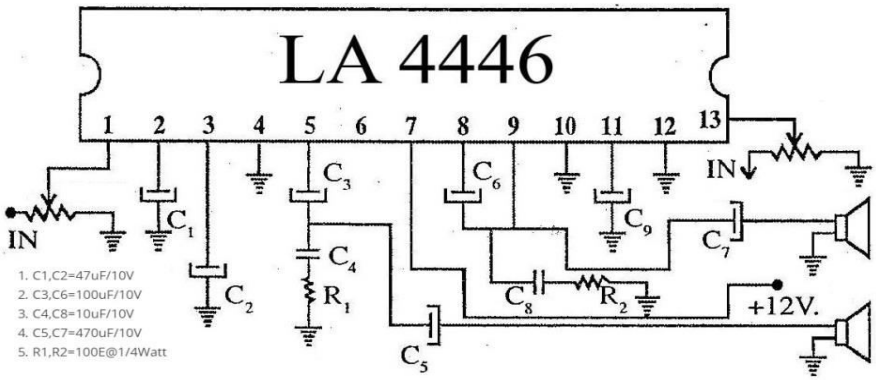
İÇ YAPISI

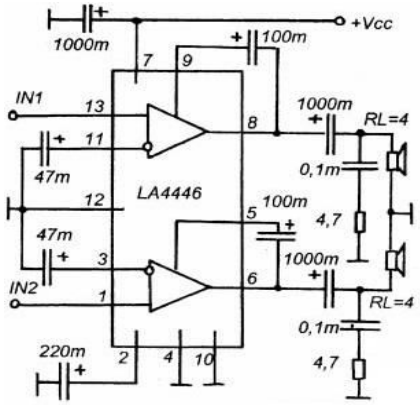
ÇEŞİTLİ DEVRE ŞEMALARI



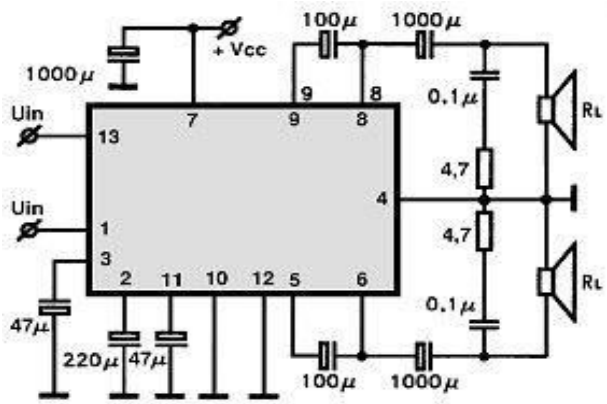
POWER AMPLIFIER 2x5,5W

Vcc MAX =18V	Po =2x5,5V	Icco TYP =75mA	RIN = 30k
Vcc TYP =13,2V	RL =4 Ohm	Icco MAX =150mA	Gain = 51,5dB
Vcc RNG =10...16V	TDH =10%	IMAX = 3,5A	Noise = 1,5mkV

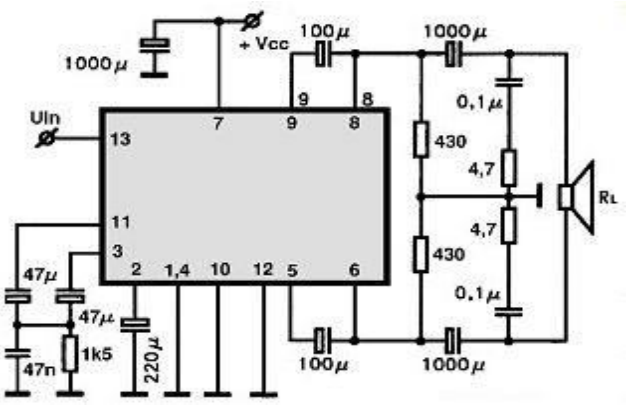




5.5 WATT STEREO AMPLİFİKATÖR



12 WATT MONO AMPLİFİKATÖR



LA4450

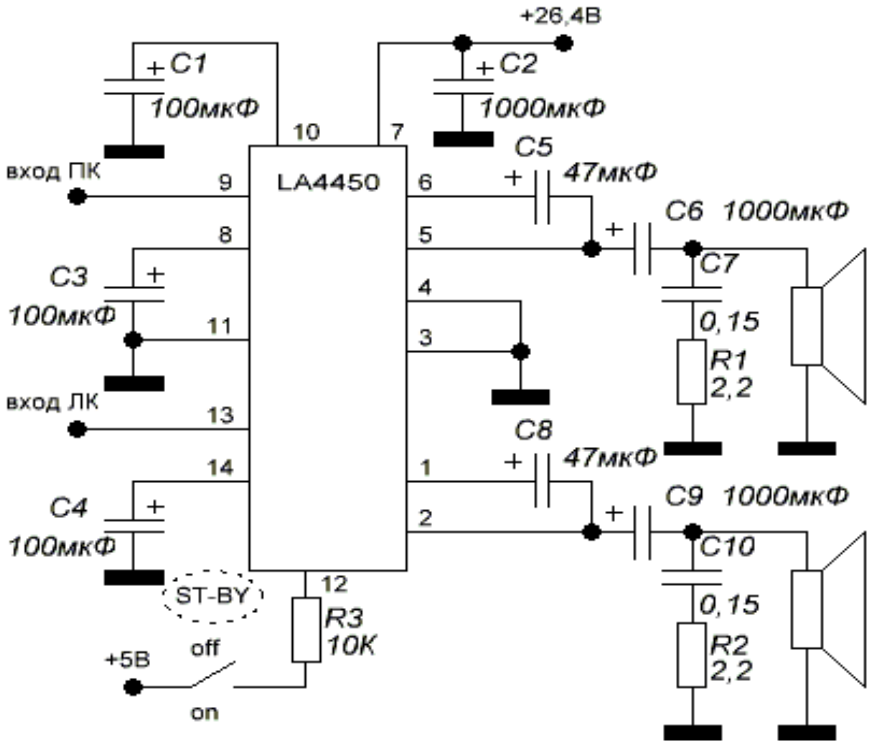
20 WATT

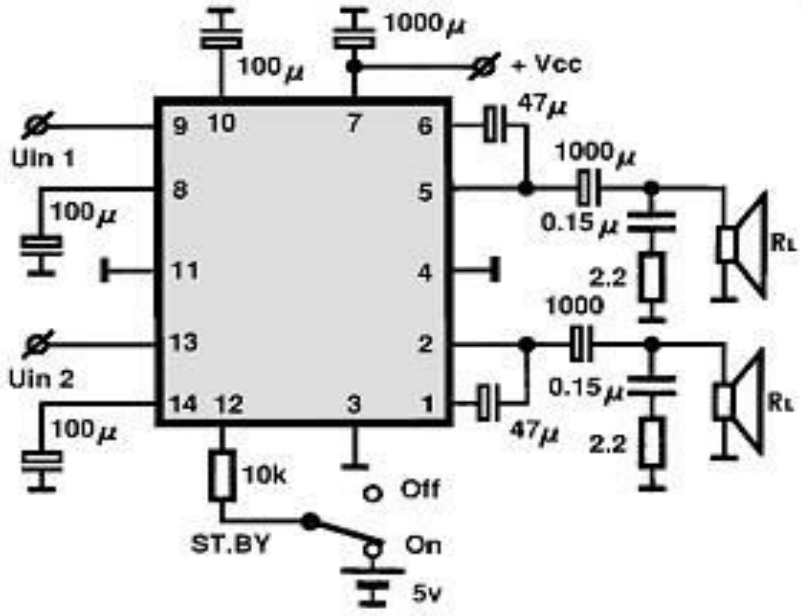
STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

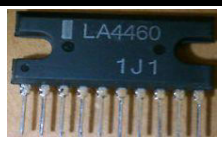




LA4460 / LA4460N

12 WATT

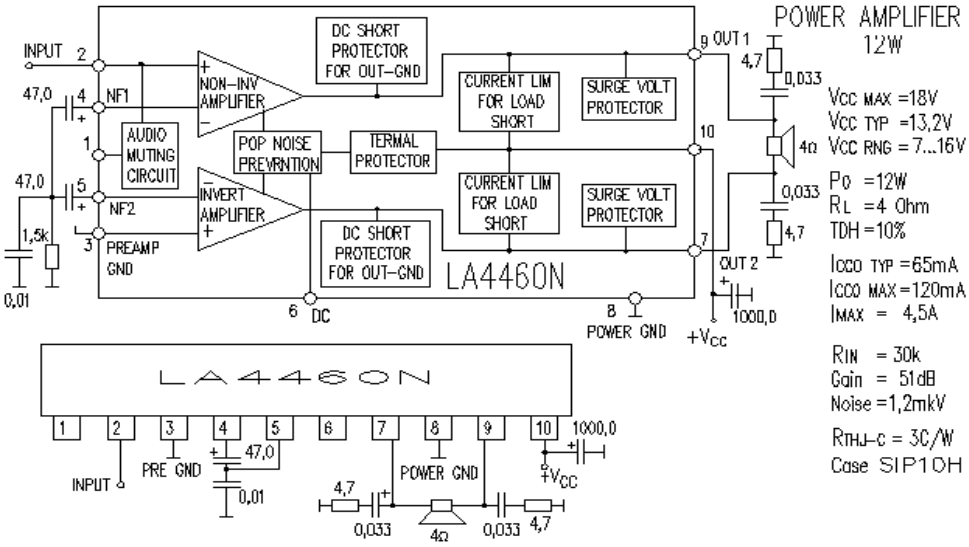
MONO AMPLİFİKATÖR

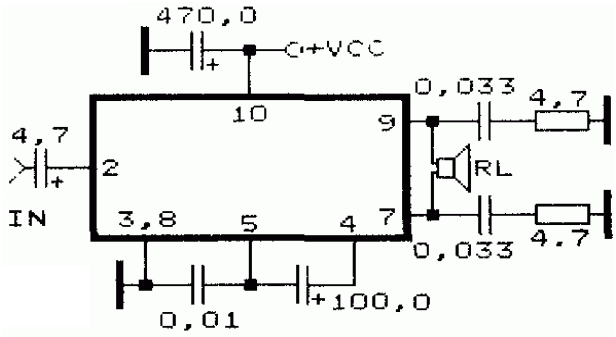


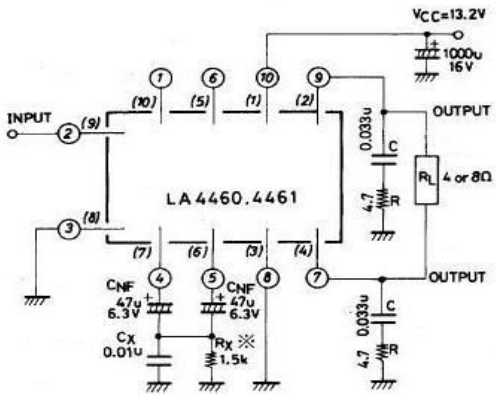


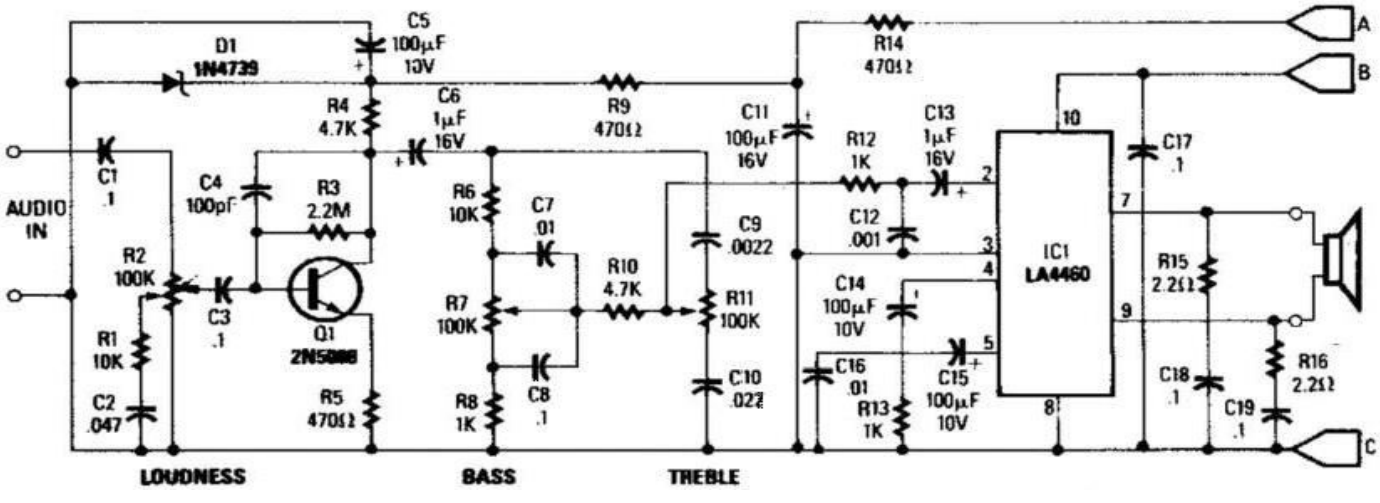
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI









LA4461 / LA4461N

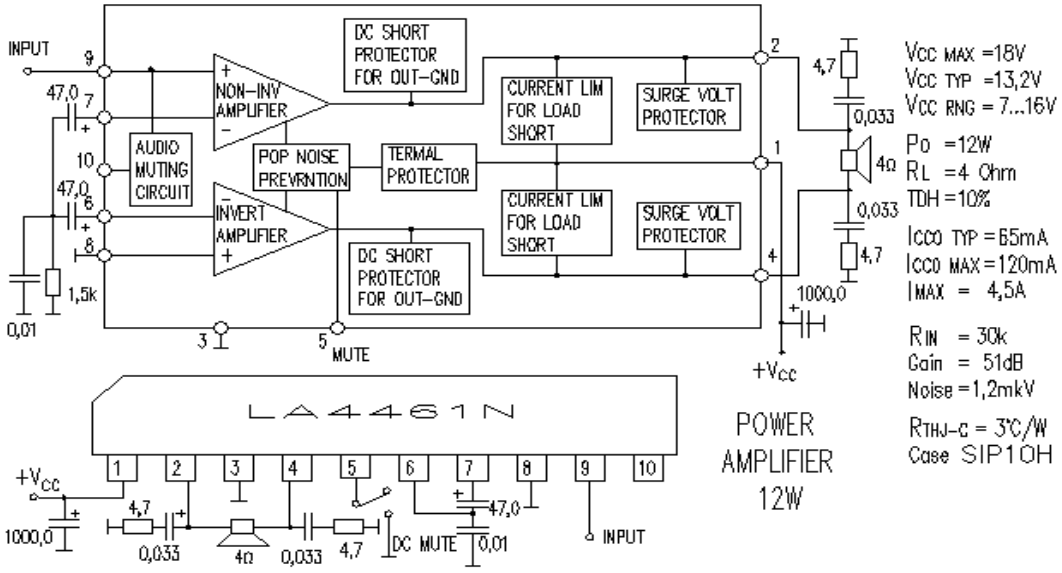
12 WATT

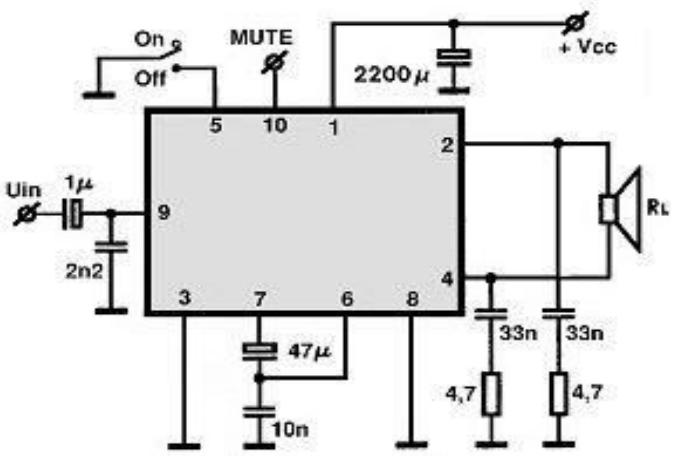
MONO AMPLİFİKATÖR

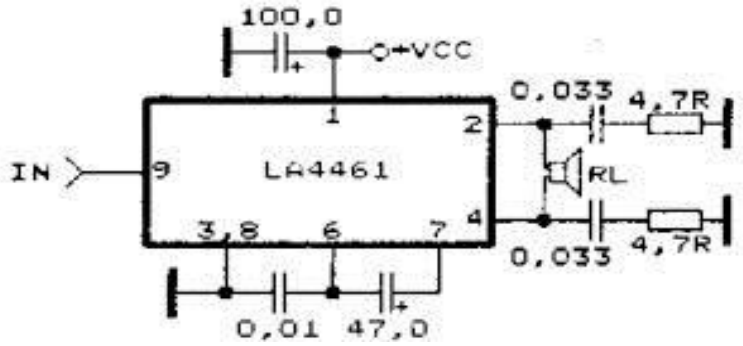


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4465

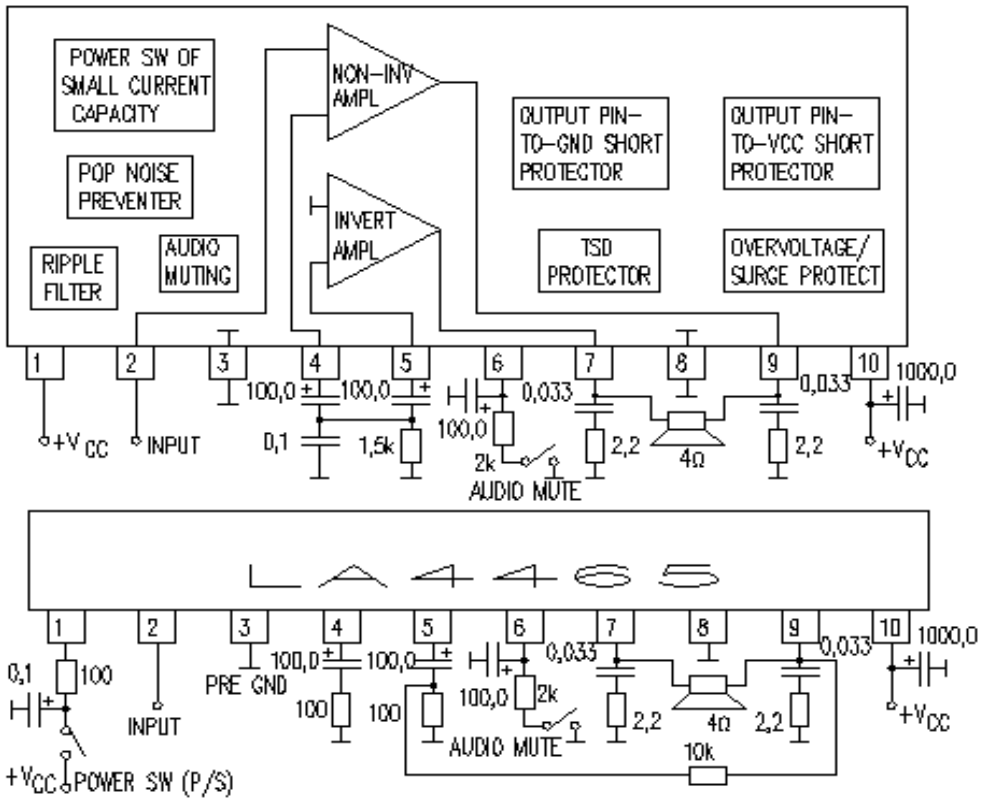
12 WATT

MONO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



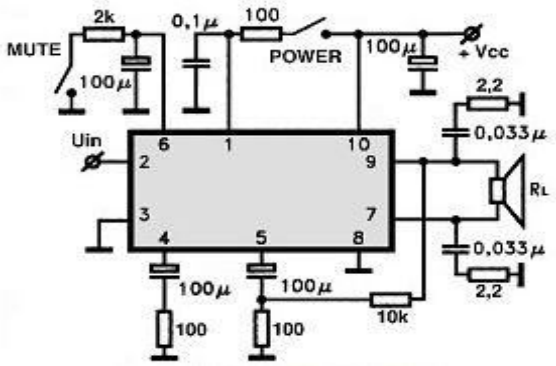
POWER AMPLIFIER 12W

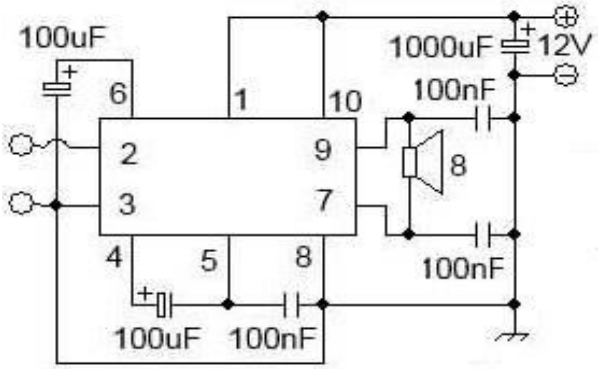
$V_{CC\ MAX}$ = 18V
$V_{CC\ TYP}$ = 13,2V
$V_{CC\ RNG}$ = 9...16V

P_O = 12W
R_L = 4 Ohm
THD = 10%

$I_{CCO\ TYP}$ = 50mA
$I_{CCO\ MAX}$ = 100mA
I_{MAX} = 4A

R_{IN} = –
Gain = 45dB
Noise = 1,2mkV
$R_{TH\,J-C}$ = 3C/W
Case SIP-10H
Muting 80dB
Stand-by Switch





LA4475

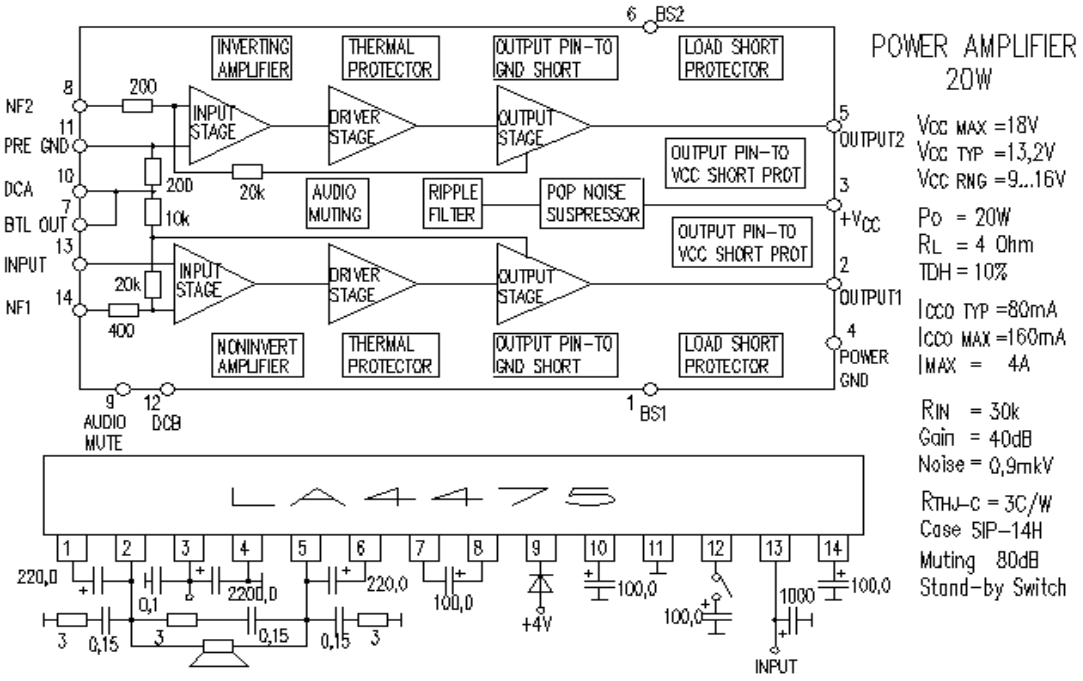
20 WATT

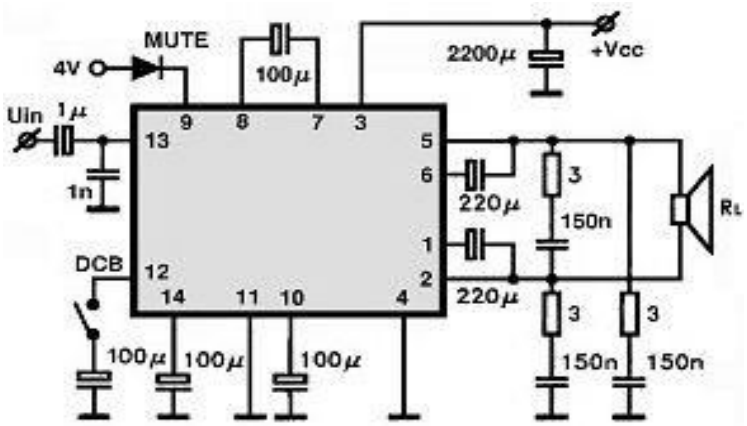
MONO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





LA4476

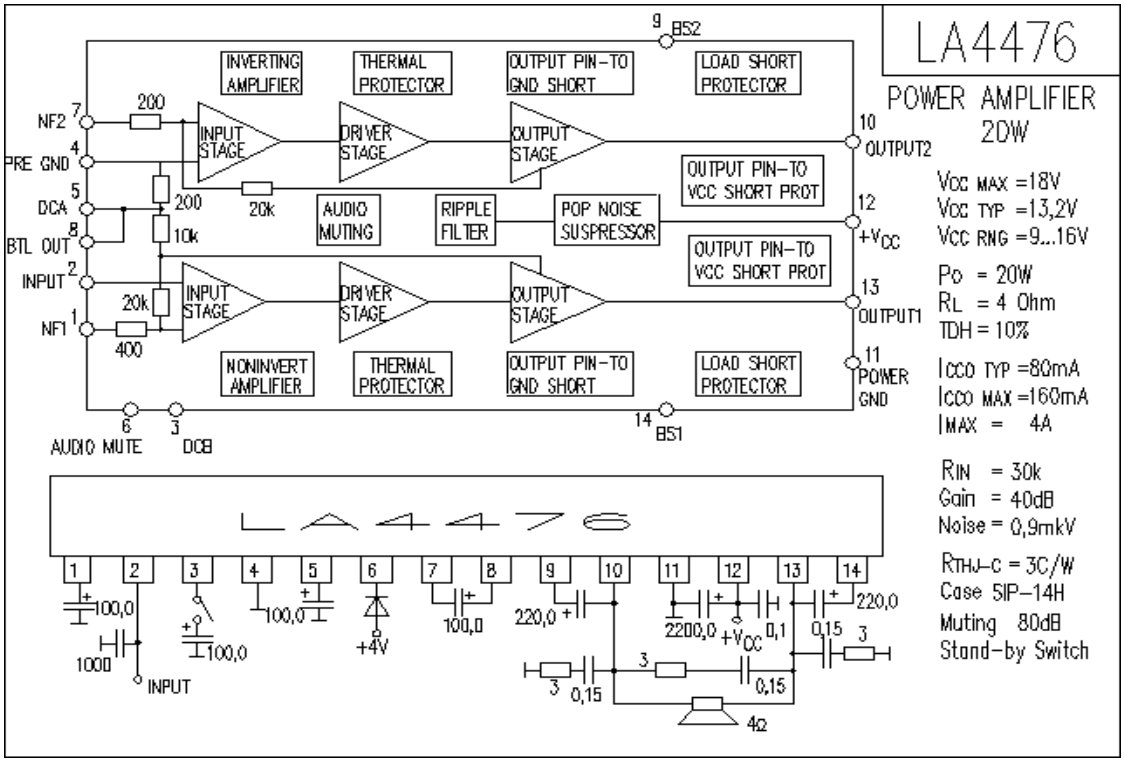
20 WATT

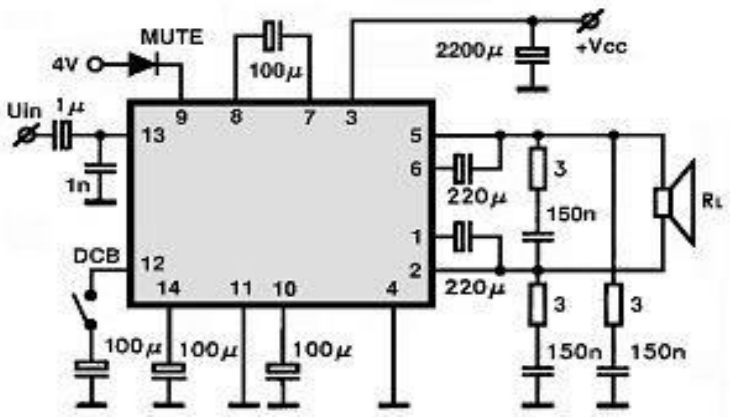
MONO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





LA4480

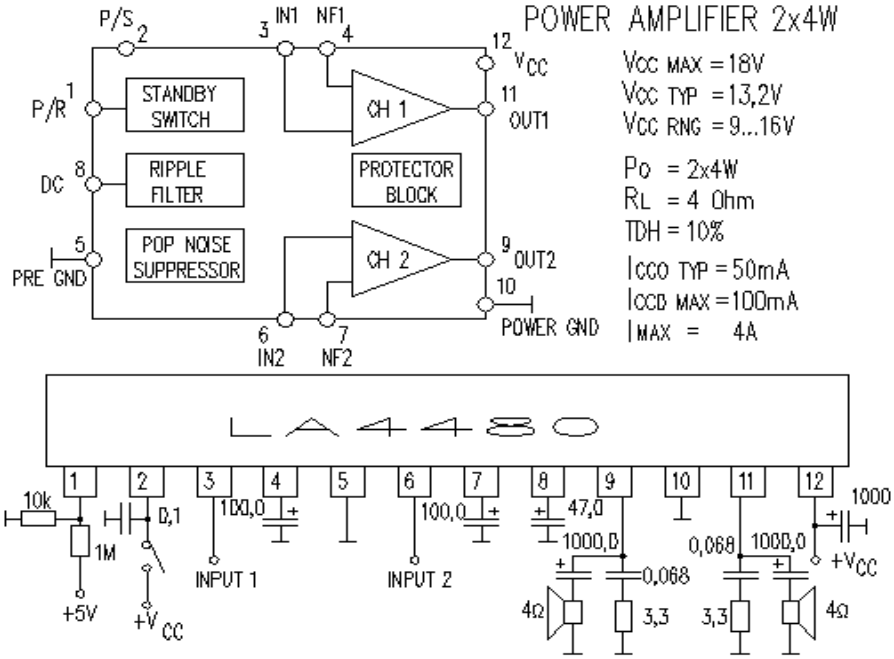
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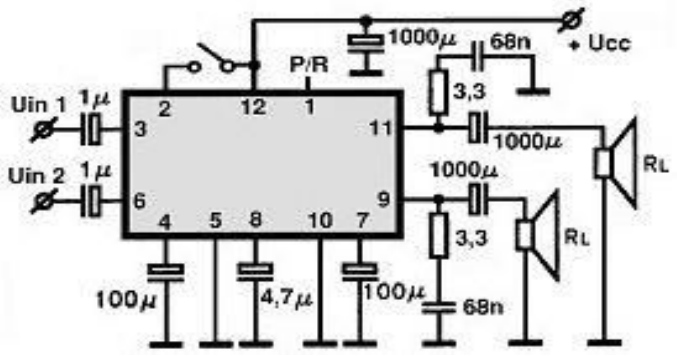
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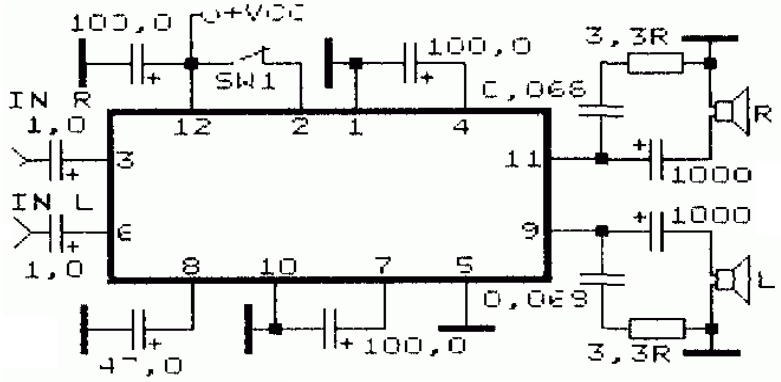


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4497

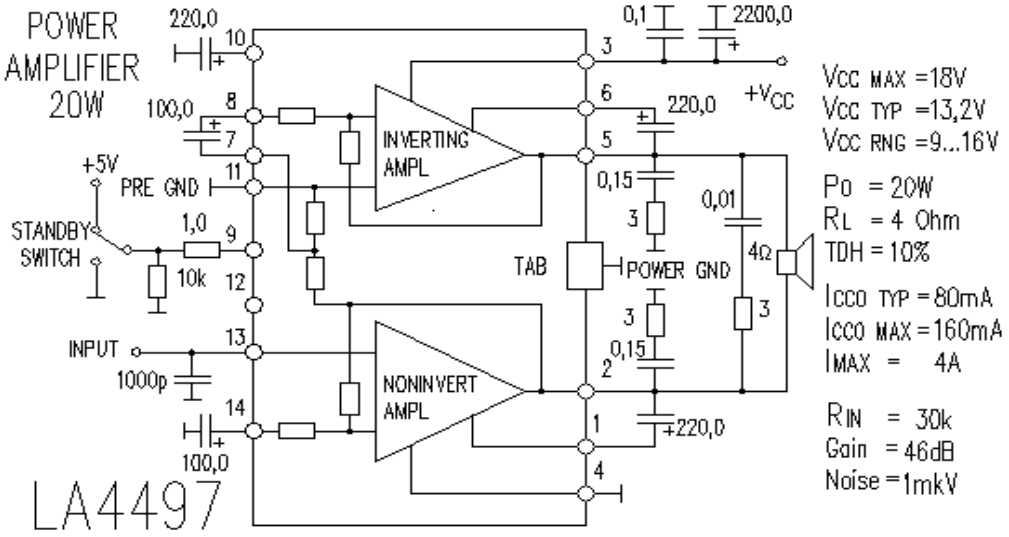
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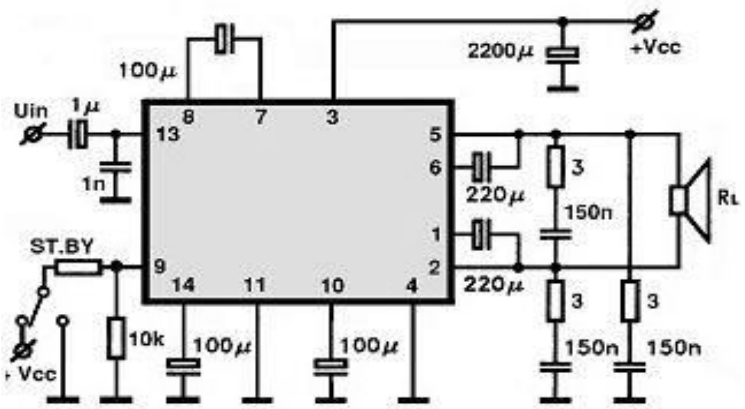
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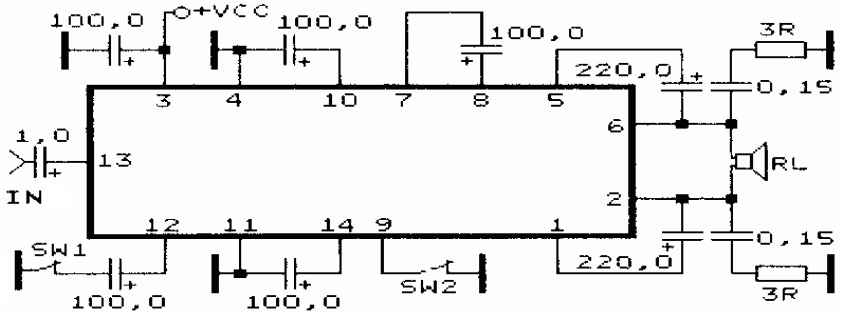


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4498

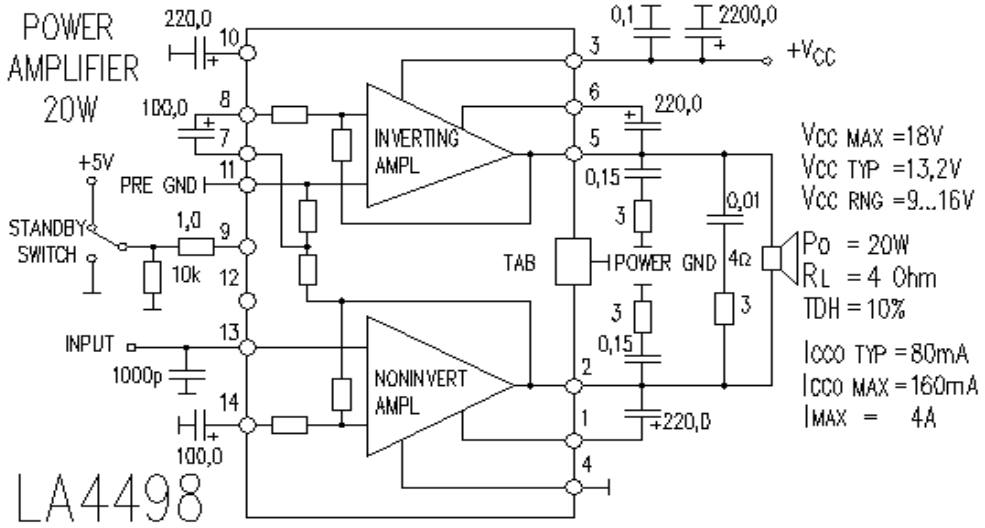
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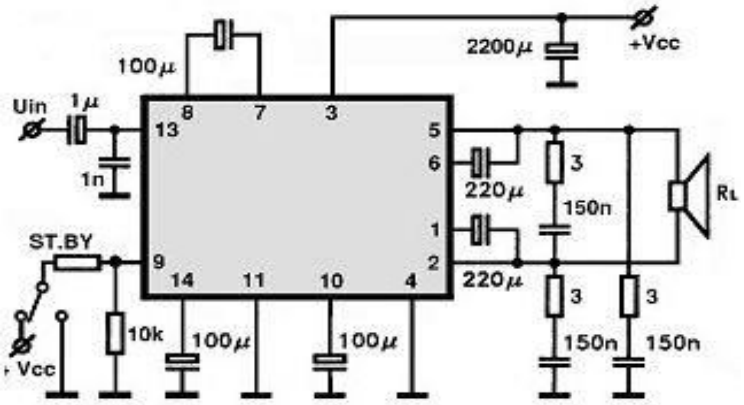
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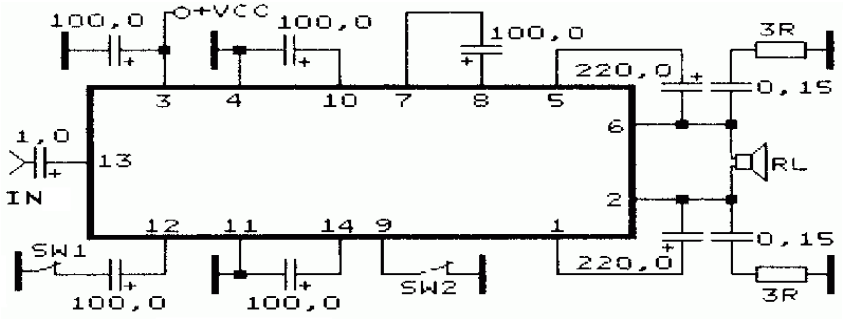


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4500

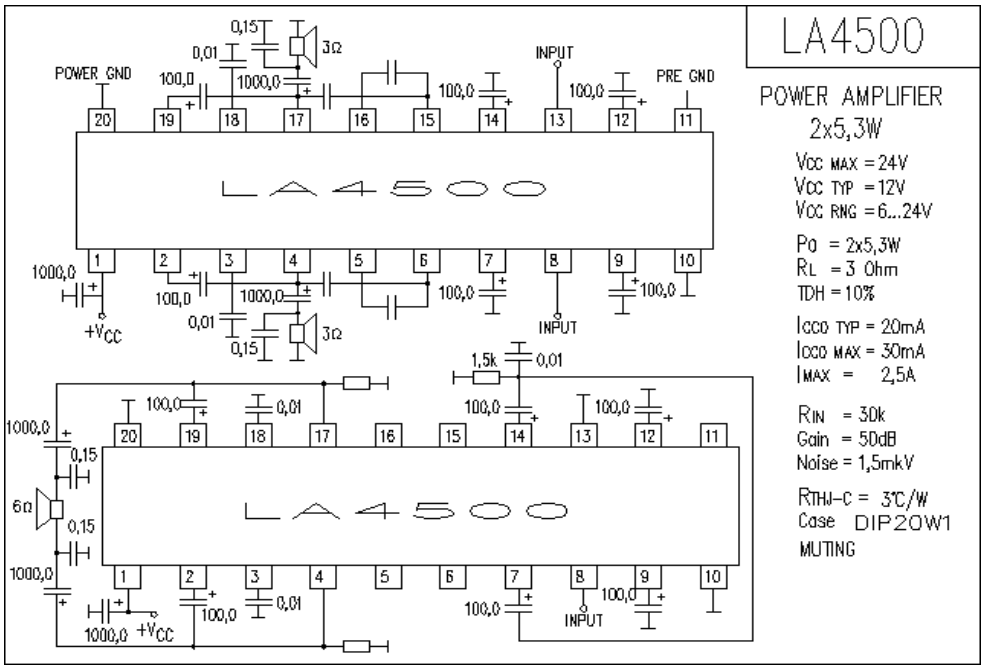
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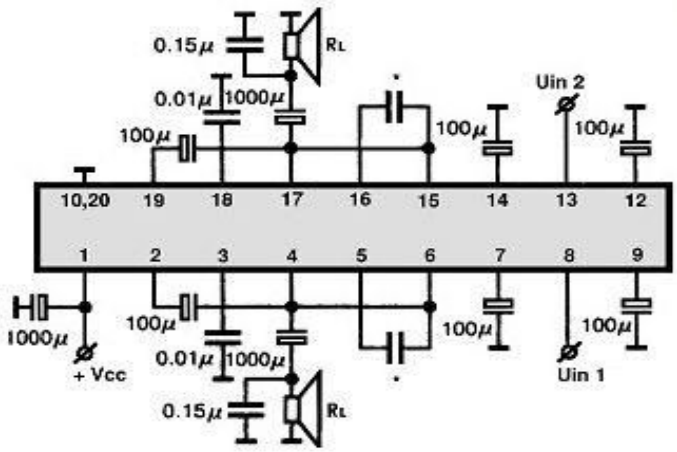
STEREO AMPLİFİKATÖR



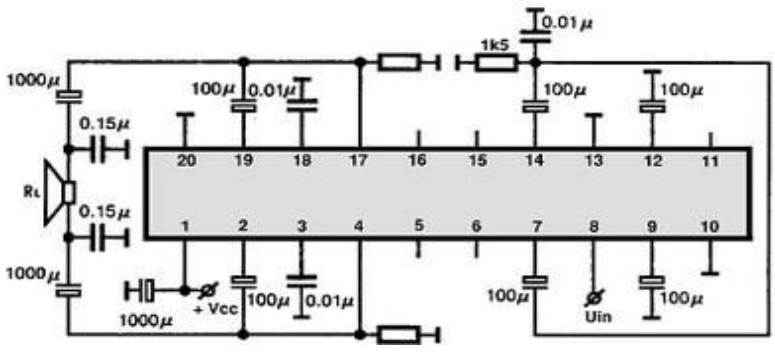
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





5.3 WATT
STEREO
AMPLİFİKATÖR



12 WATT
MONO
AMPLİFİKATÖR

LA4505

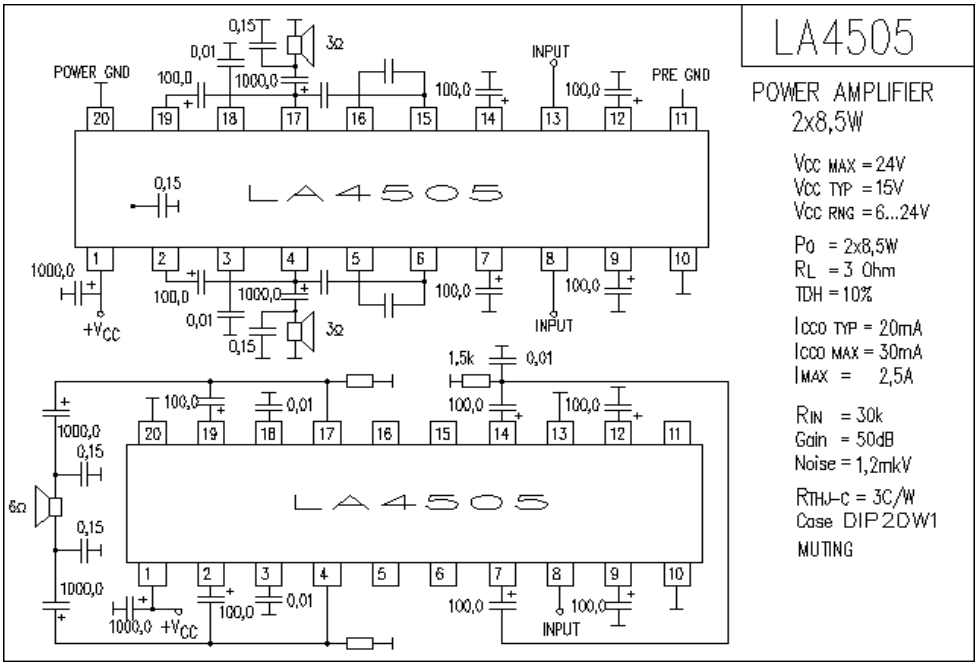
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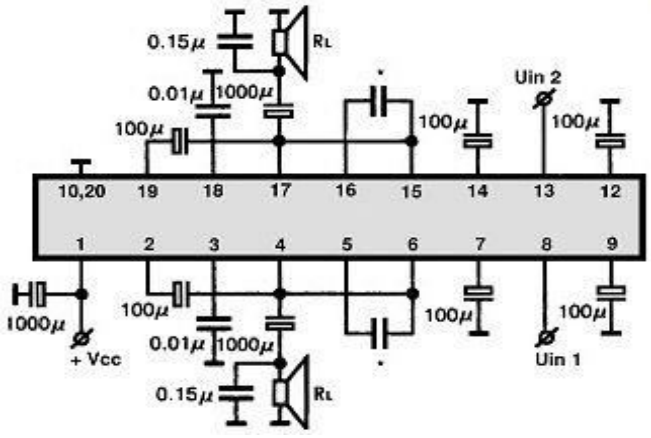
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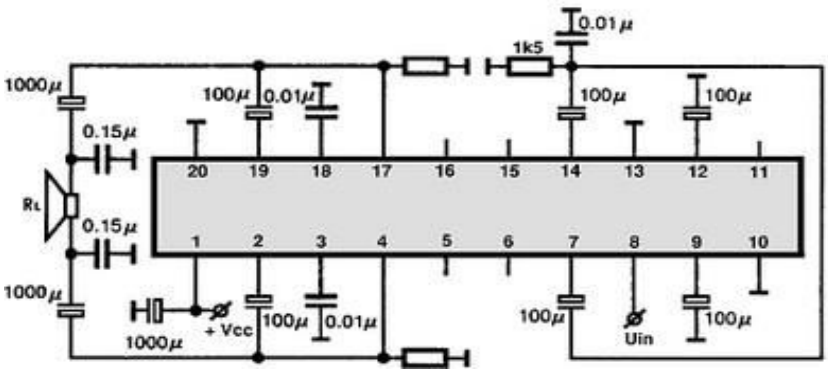
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





8.5 WATT
STEREO
AMPLİFİKATÖR



18 WATT
MONO
AMPLİFİKATÖR

LA4507

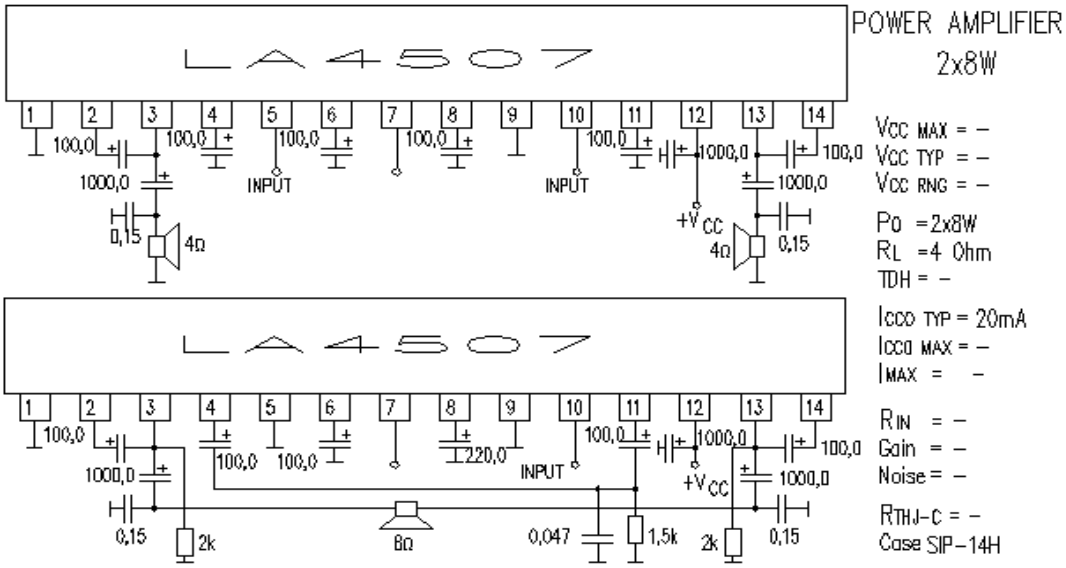
8 WATT

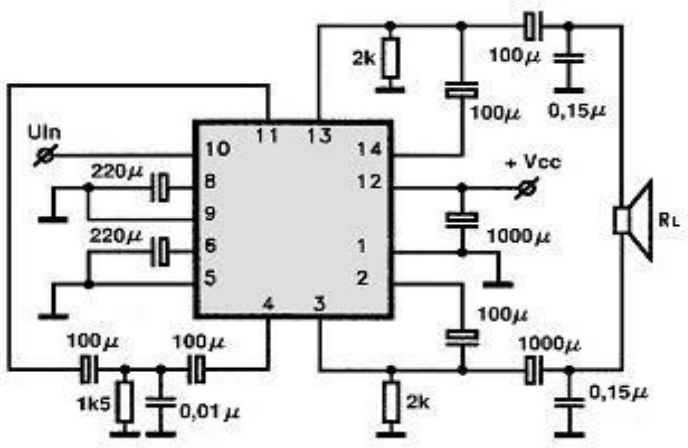
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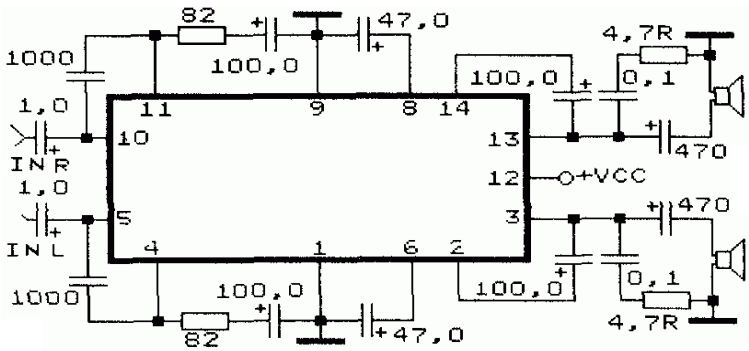


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4508

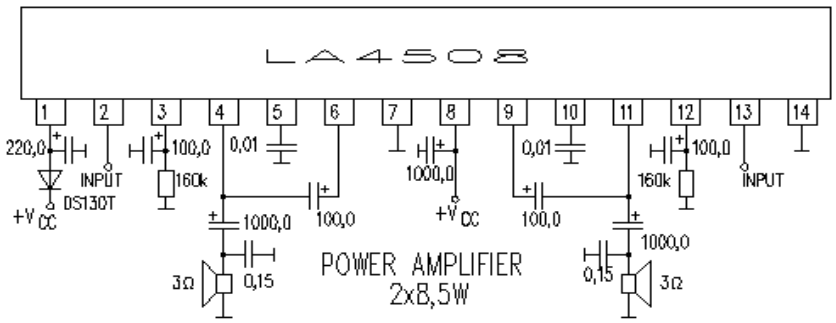
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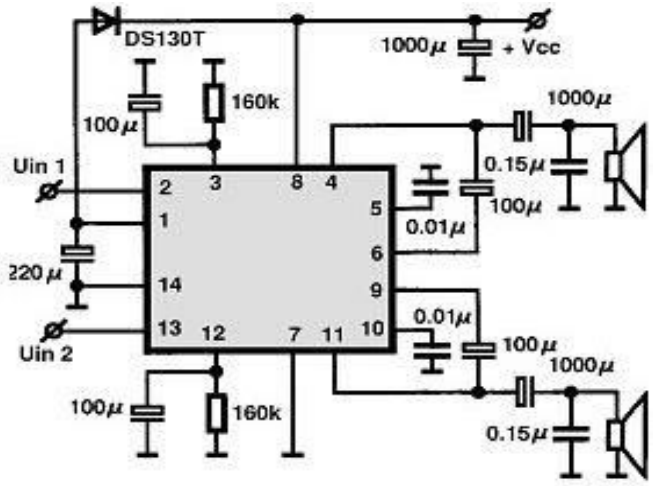
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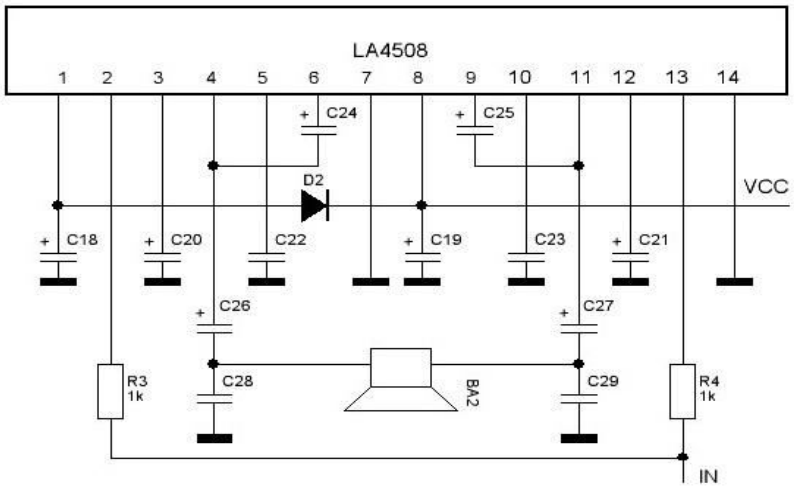


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



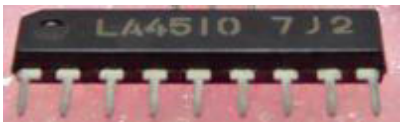




LA4510

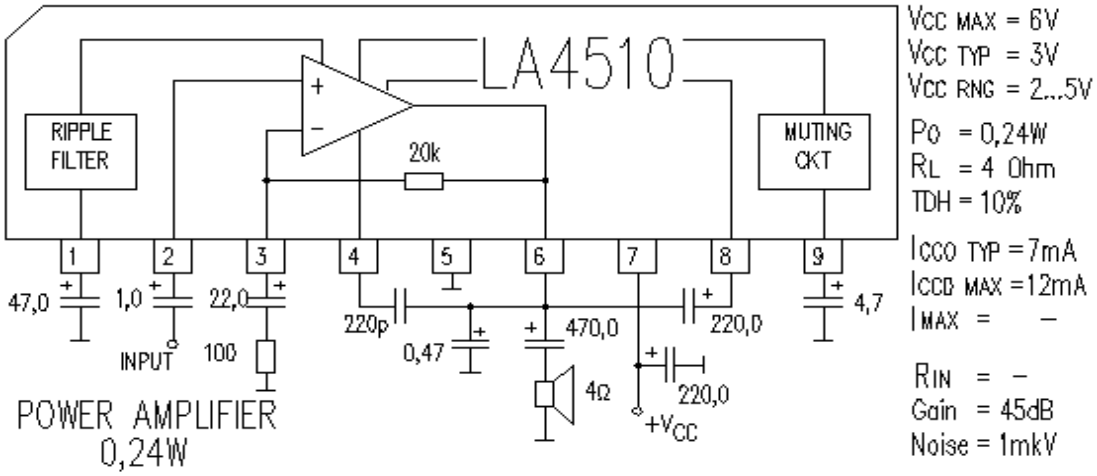
0.24 WATT

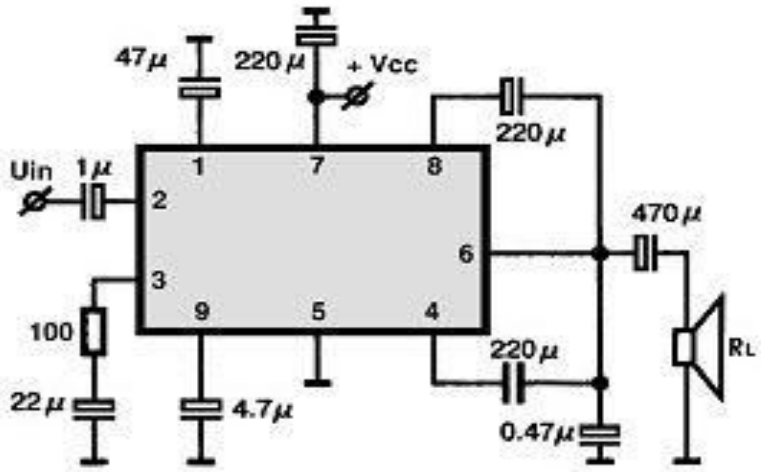
MONO AMPLİFİKATÖR

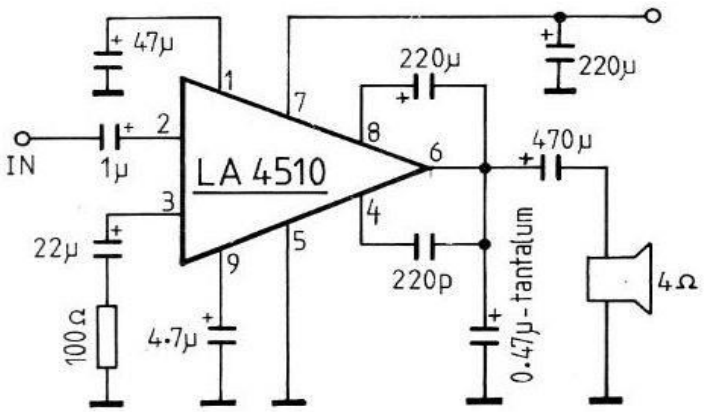


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4520

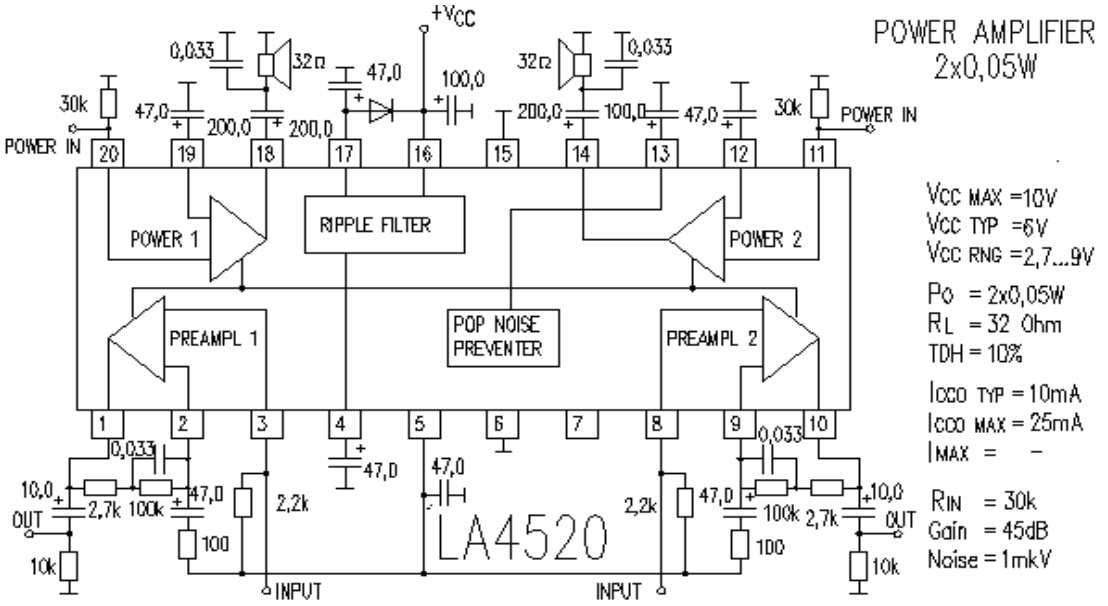
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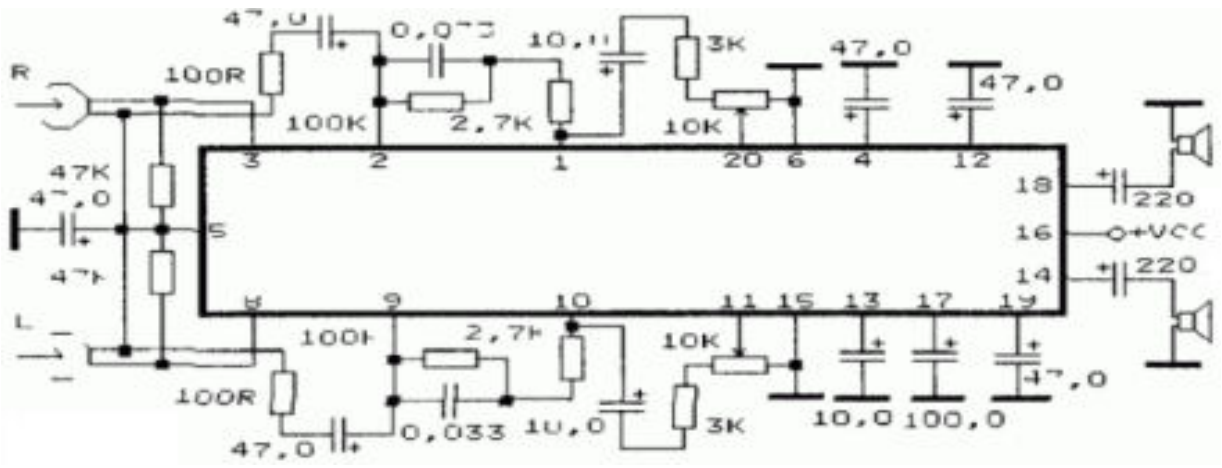
STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





L4550

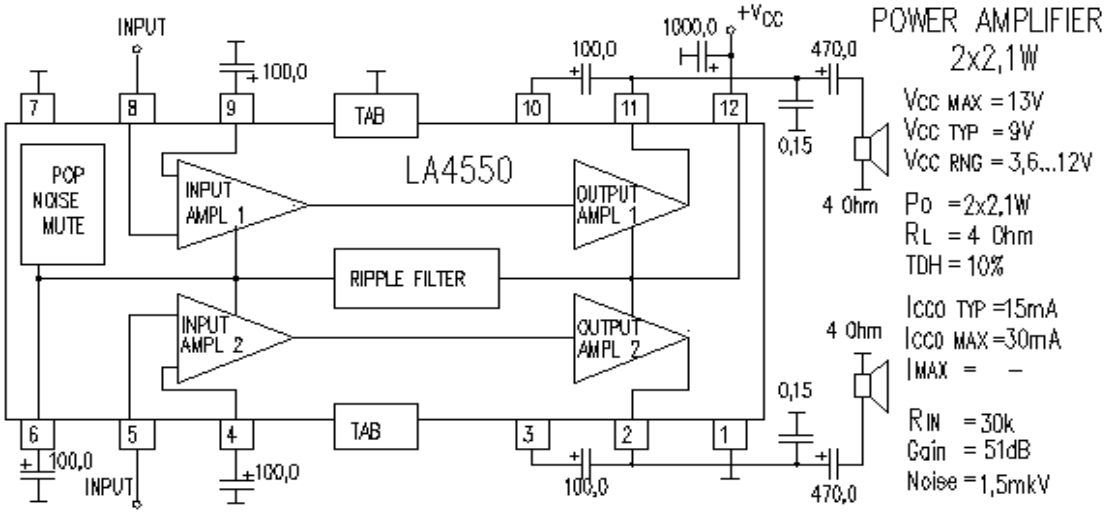
1 WATT

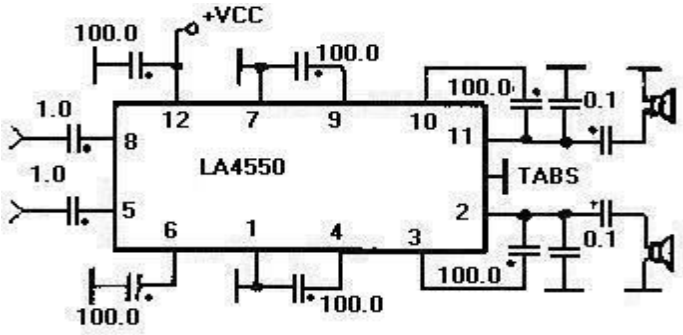
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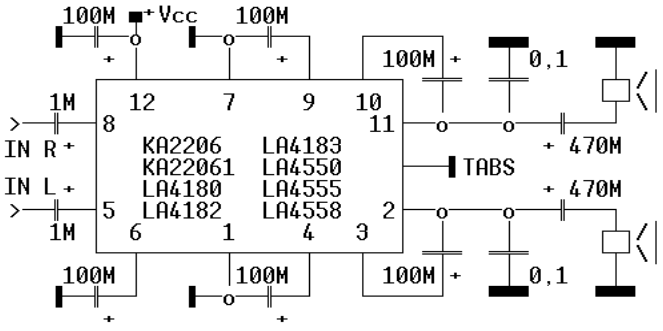


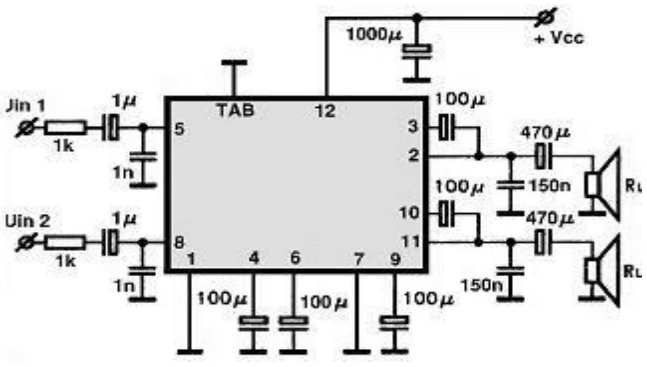
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ÇEŞİTLİ DEVRE ŞEMALARI









L4555

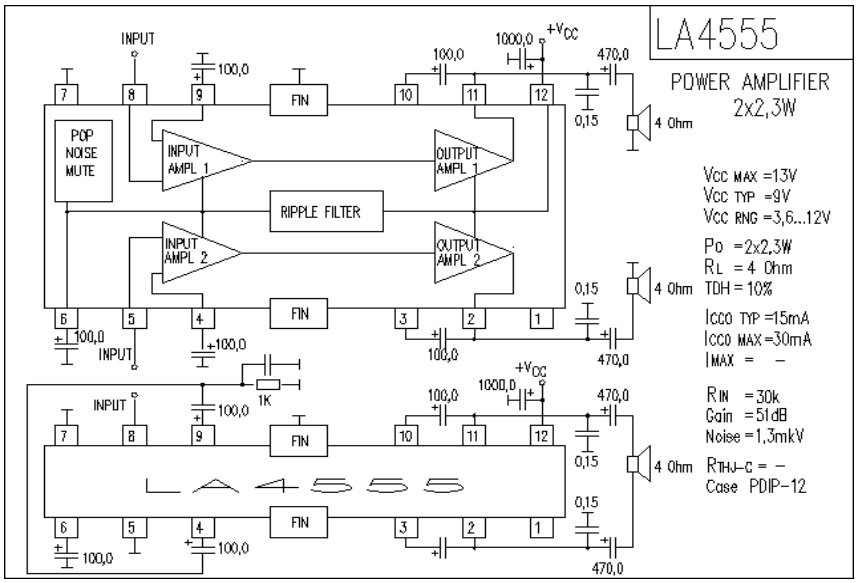
2.3 WATT

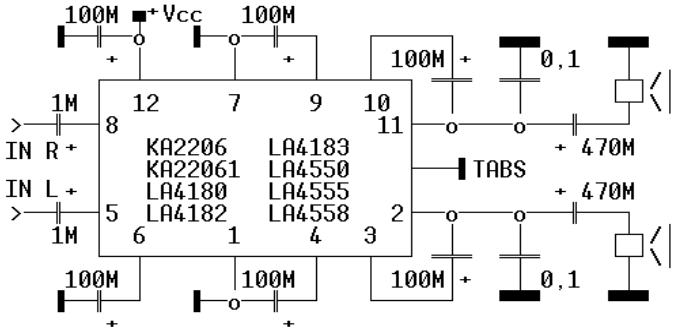
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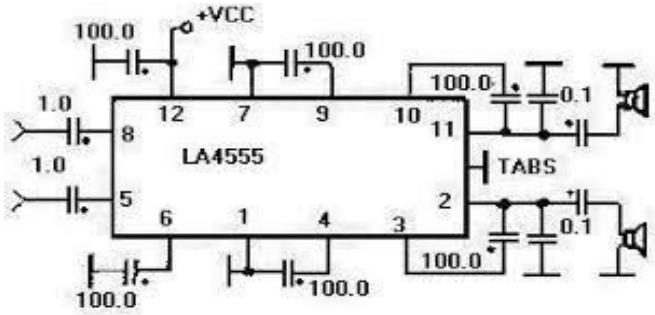


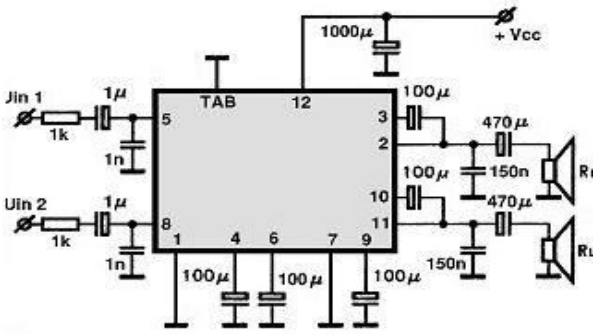
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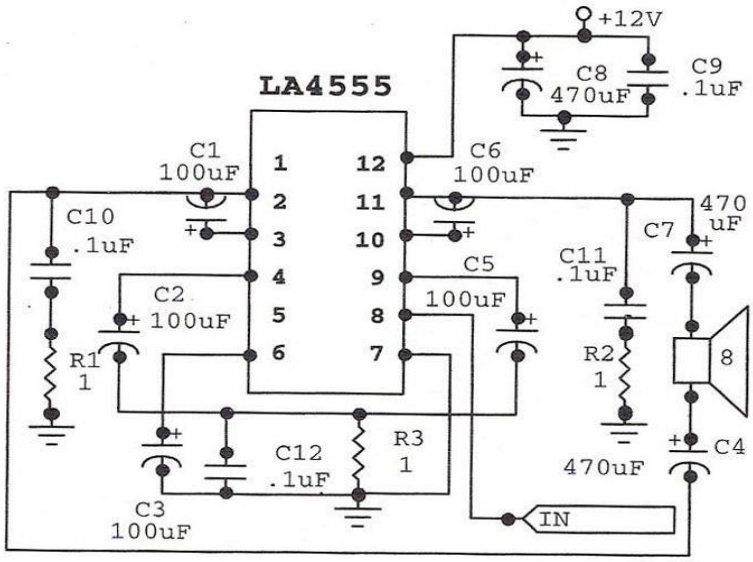
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LA4557

2.4 WATT

STEREO AMPLİFİKATÖR

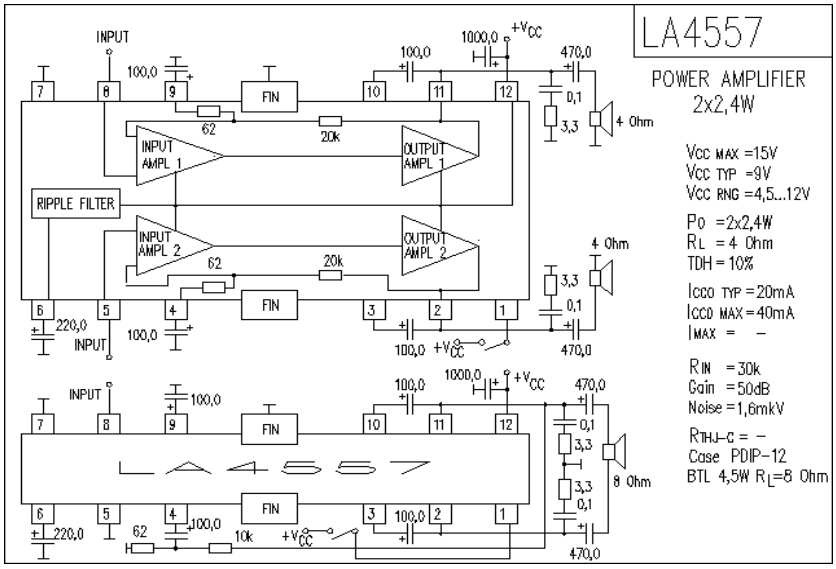


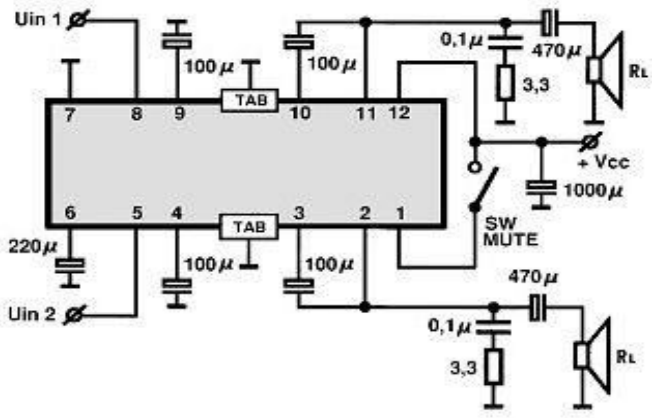
İÇ YAPISI

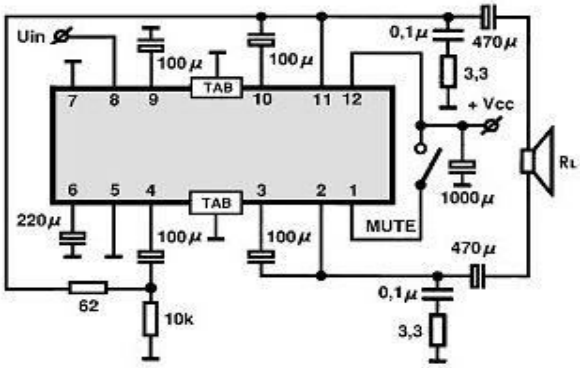
STEREO ÇIKIŞ 2.4 WATT

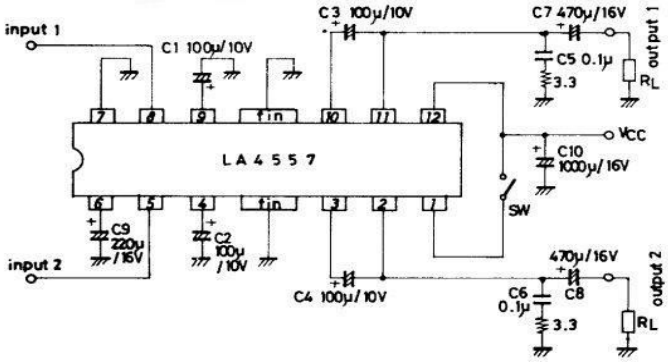
KÖPRÜ ÇIKIŞ 4.6 WATT

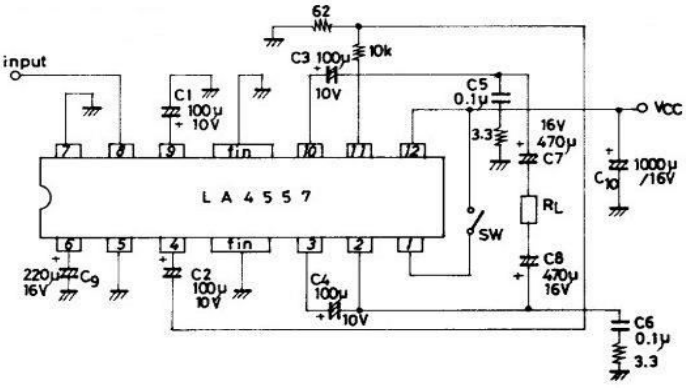
ÇEŞİTLİ DEVRE ŞEMALARI











LA4558

2.4 WATT

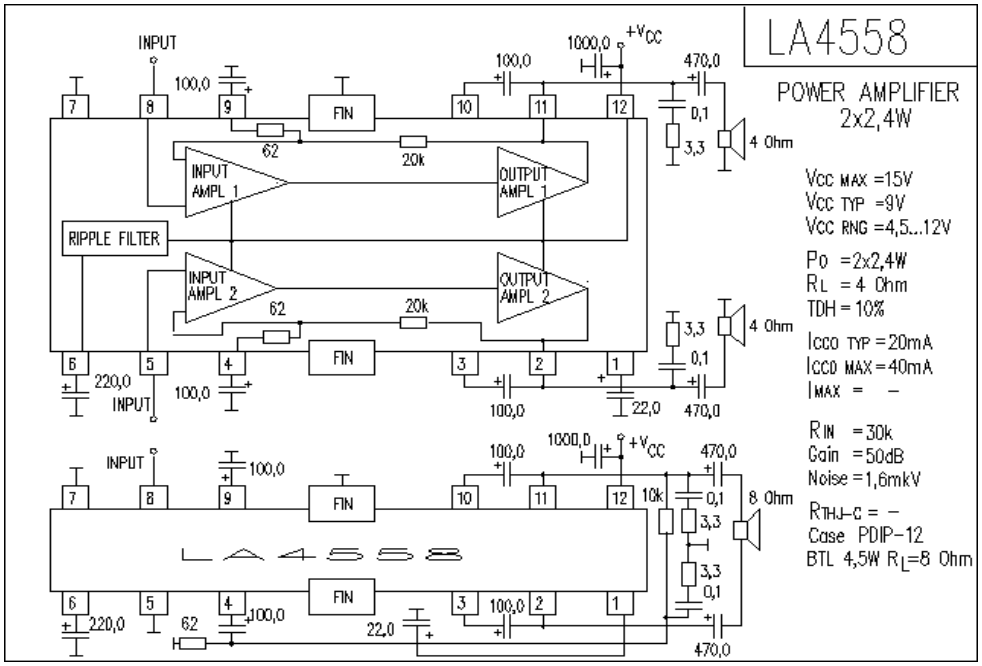
STEREO AMPLİFİKATÖR

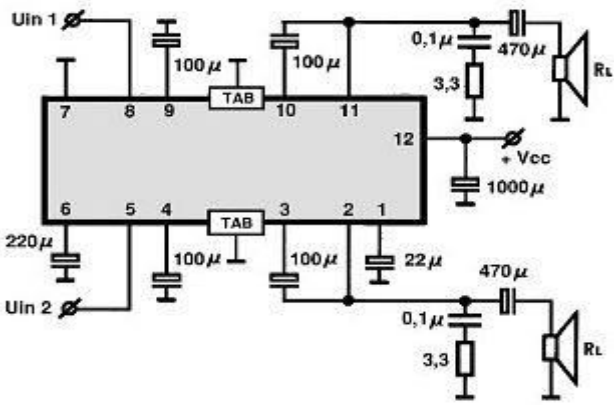


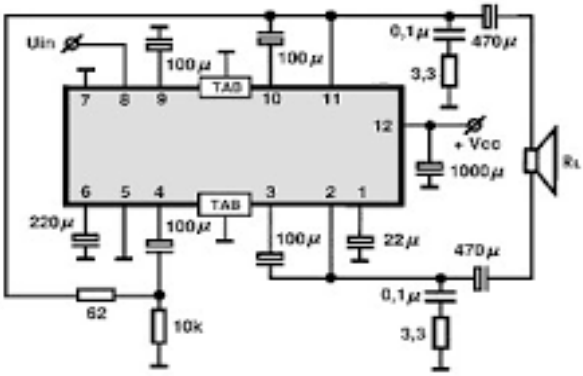
İÇ YAPISI

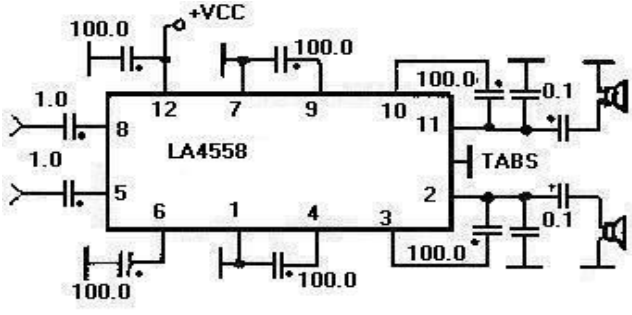
STEREO ÇIKIŞ 2.4 WATT
KÖPRÜ ÇIKIŞ 4.5 WATT

ÇEŞİTLİ DEVRE ŞEMALARI









LA4570

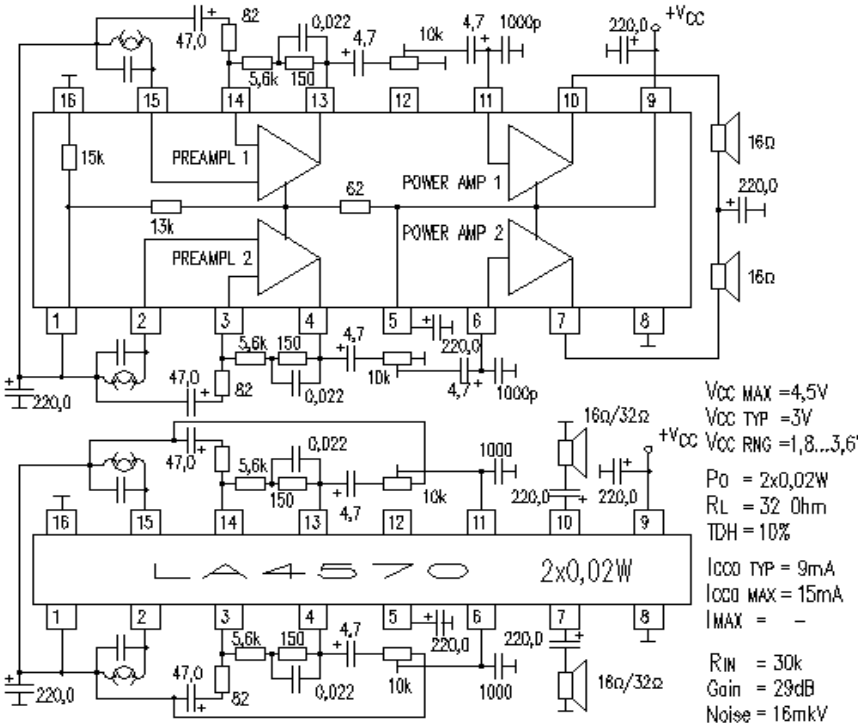
0.02 WATT SES ÇIKIŞLI

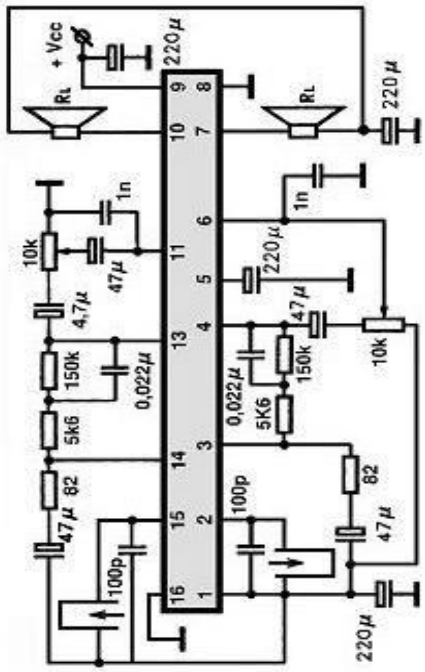
STEREO TEYP

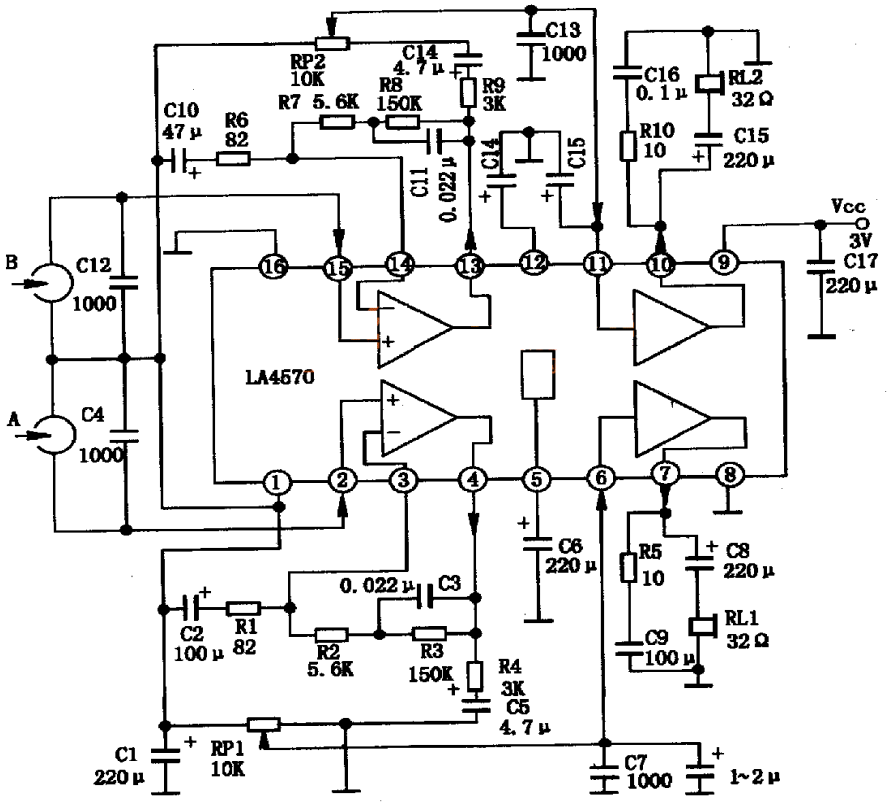


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4575

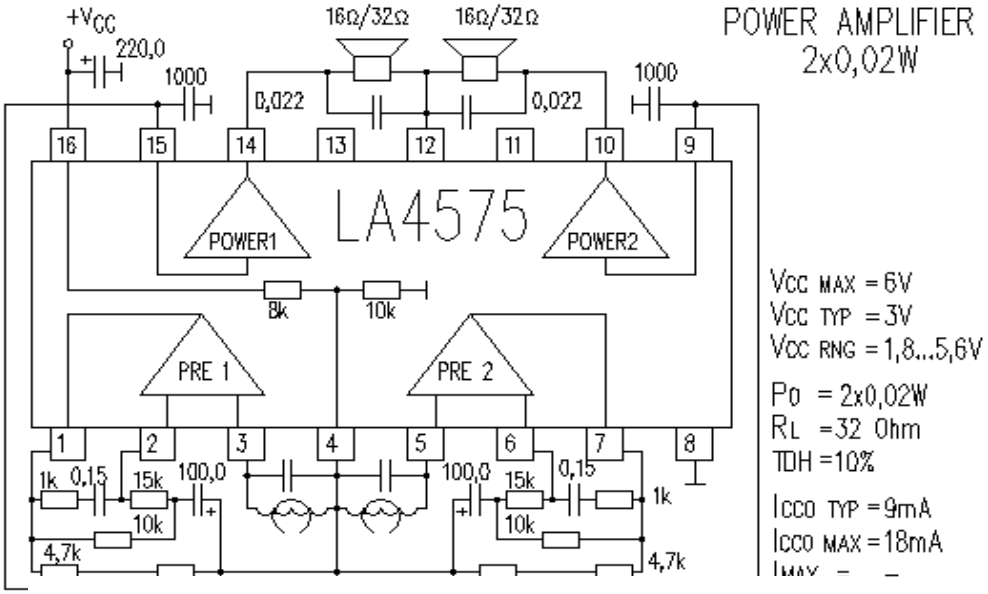
0.02 WATT SES ÇIKIŞLI

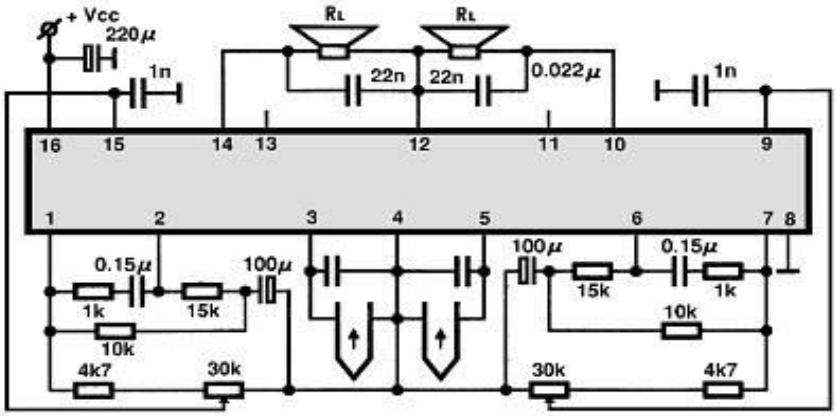
STEREO TEYP

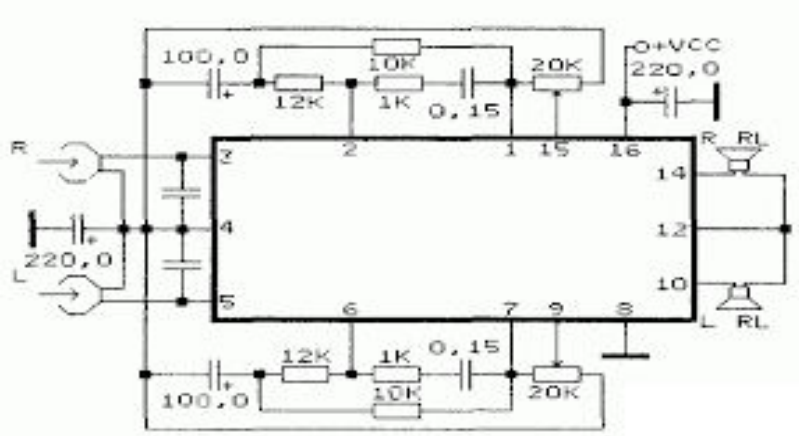


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







LA4597

2.9 WATT

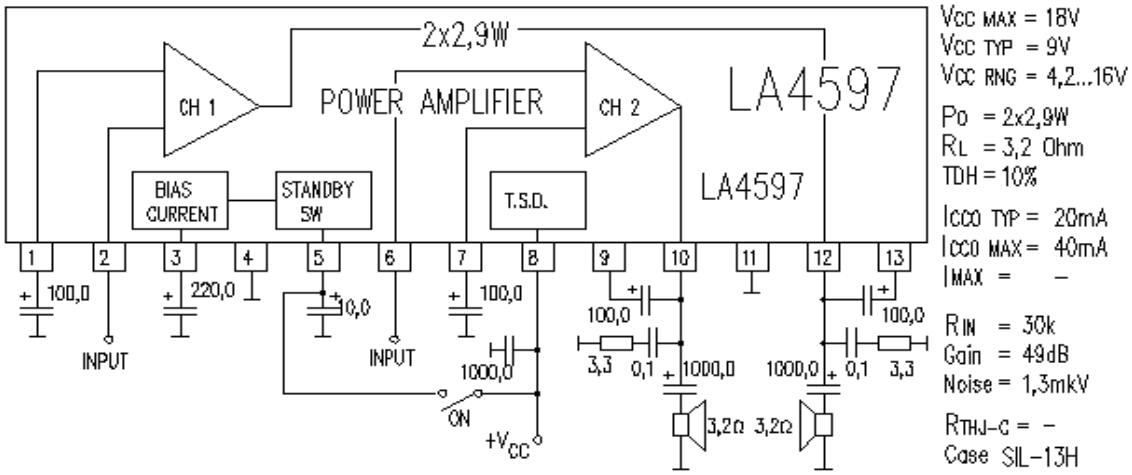
STEREO AMPLİFİKATÖR

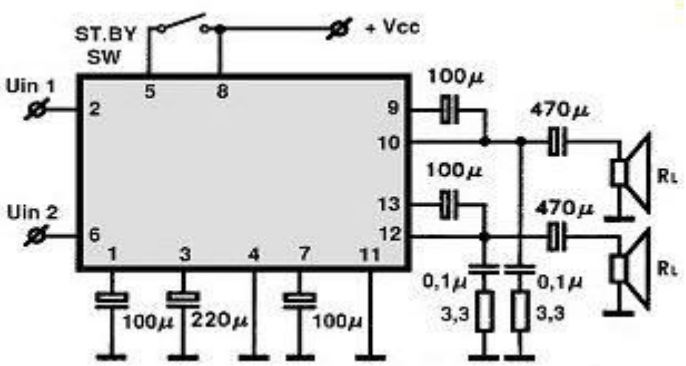


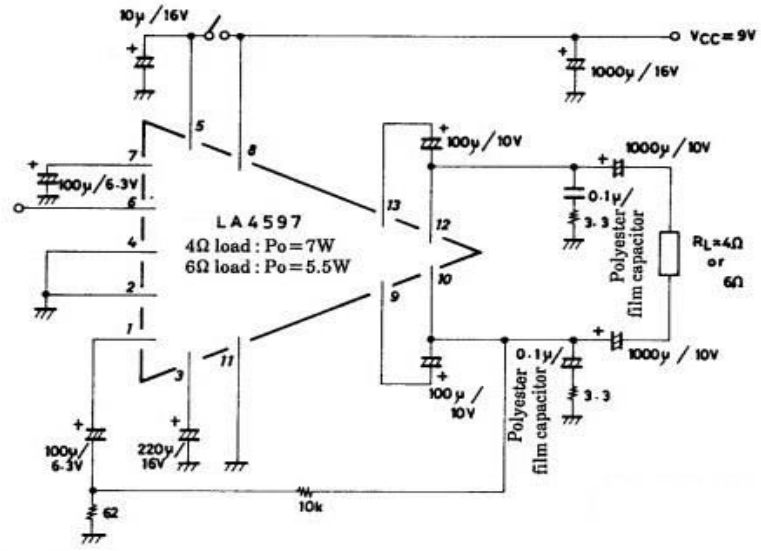
İÇ YAPISI

KÖPRÜ	**4 OHM**	**7 WATT**	**8 OHM**	**4.6 WATT**
BAGLANTIDA	**6 OHM**	**5.5 WATT**		

ÇEŞİTLİ DEVRE ŞEMALARI







LA4625

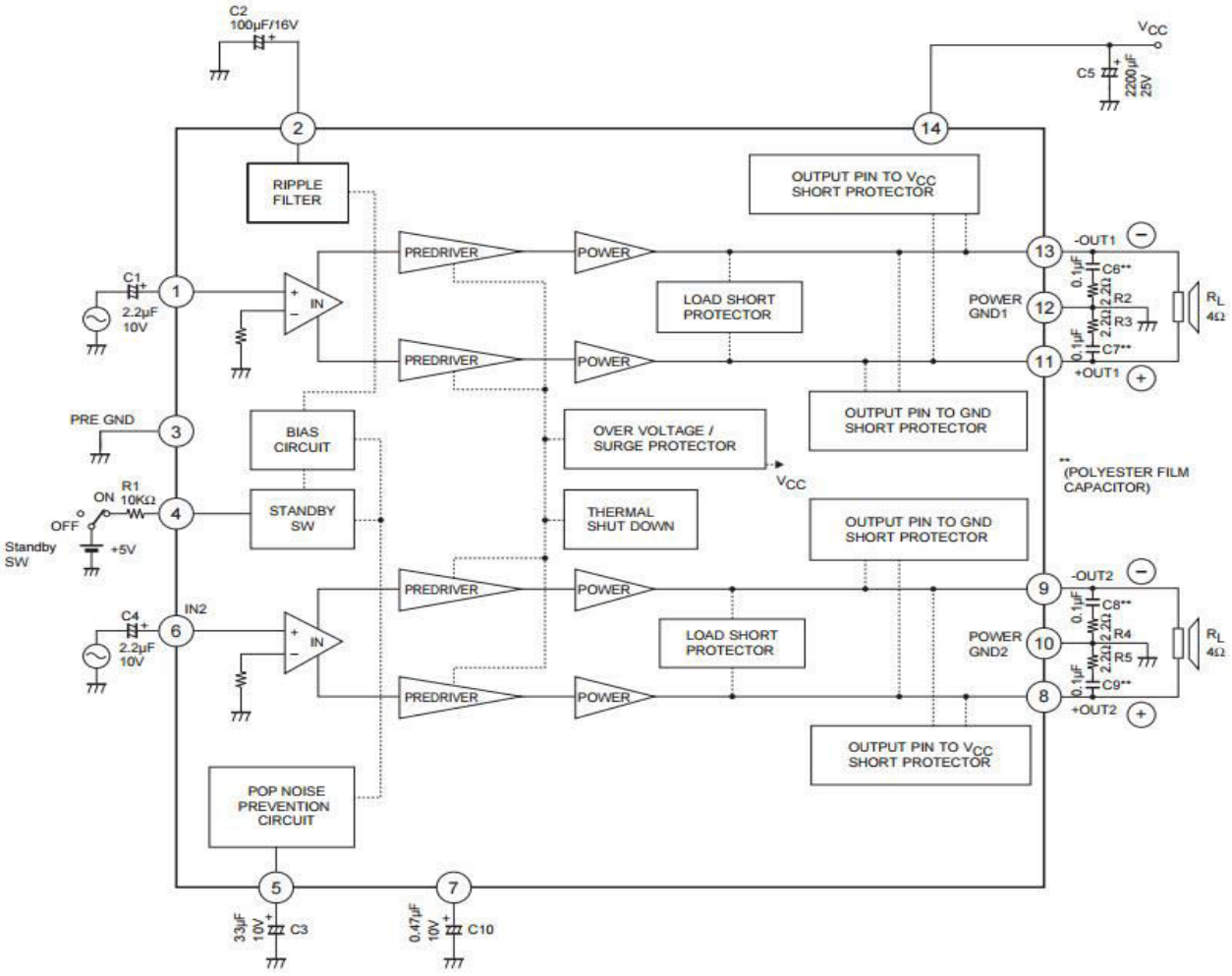
13.5 WATT

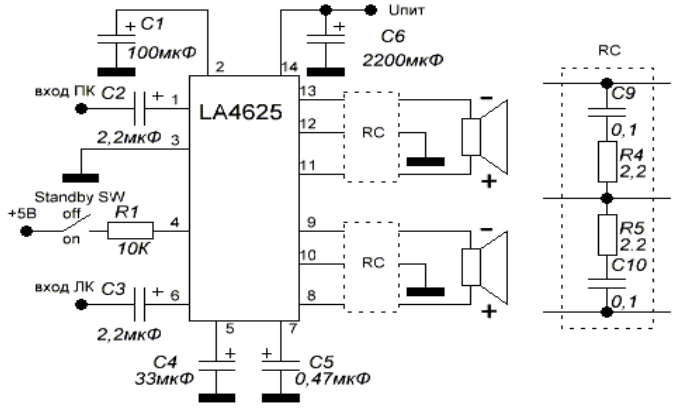
STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





LA4663

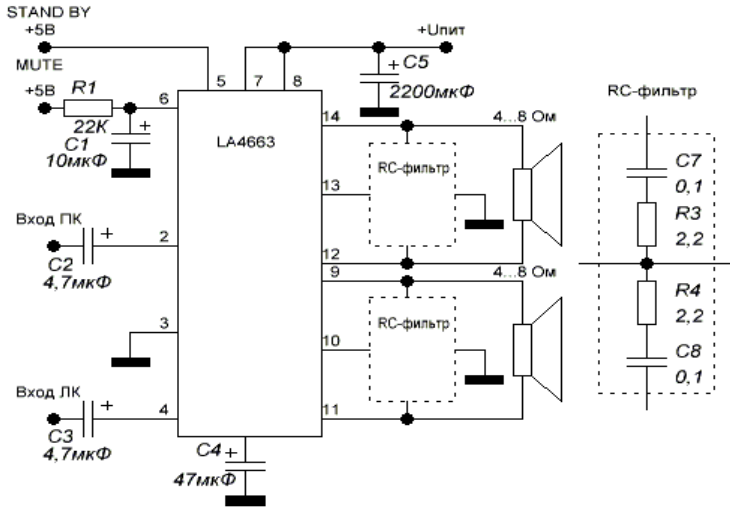
20 WATT

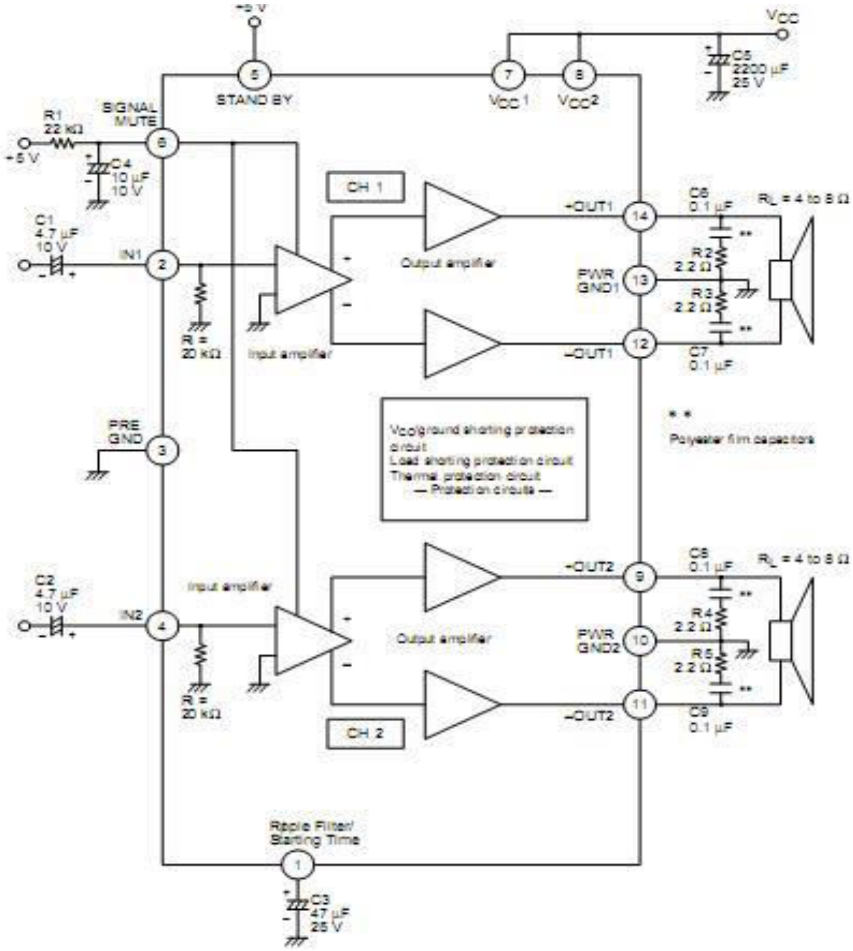
STEREO AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





LA4700

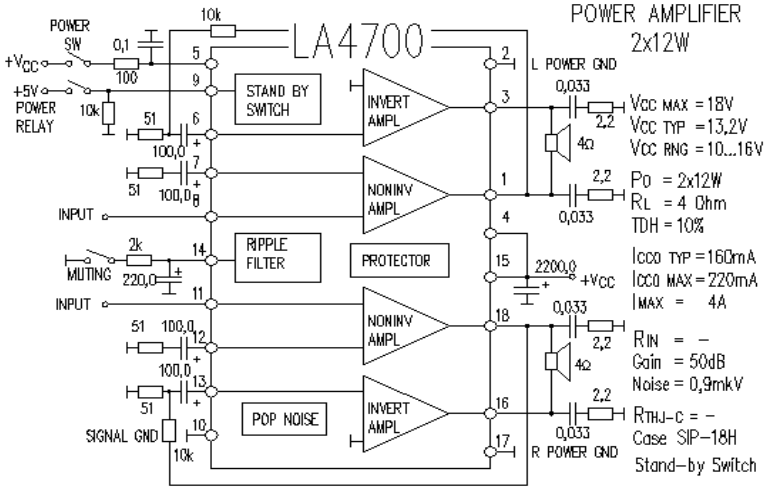
12 WATT

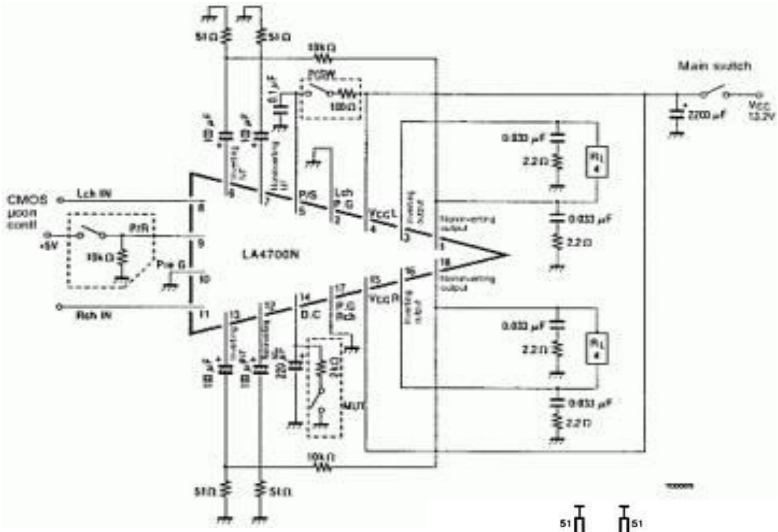
STEREO AMPLİFİKATÖR

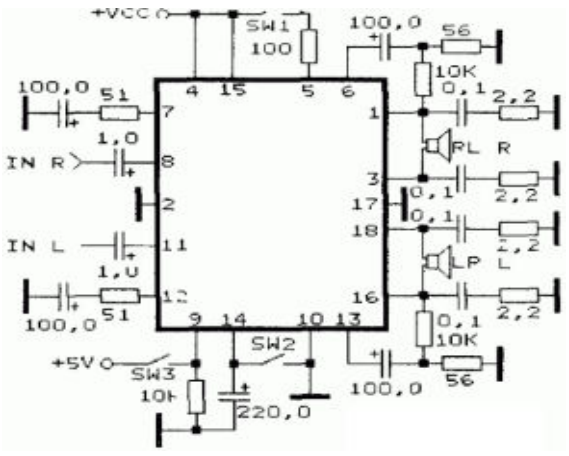


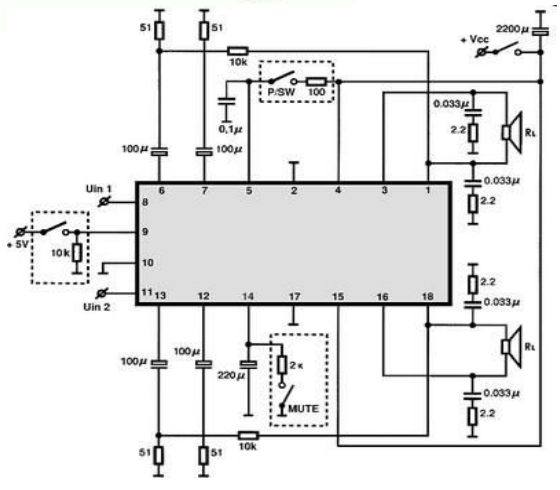
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





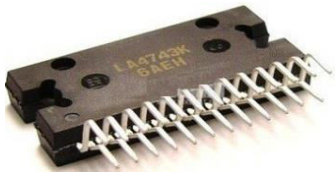




LA4743B

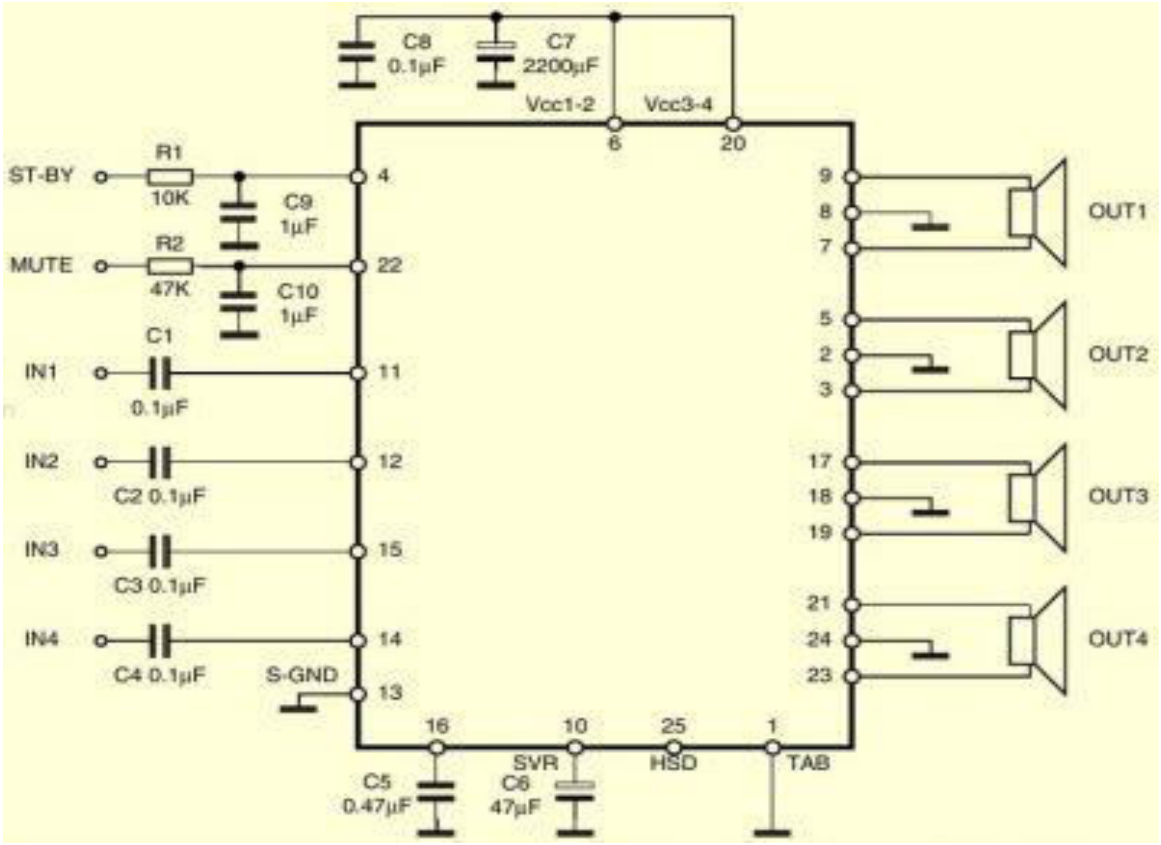
45 WATT

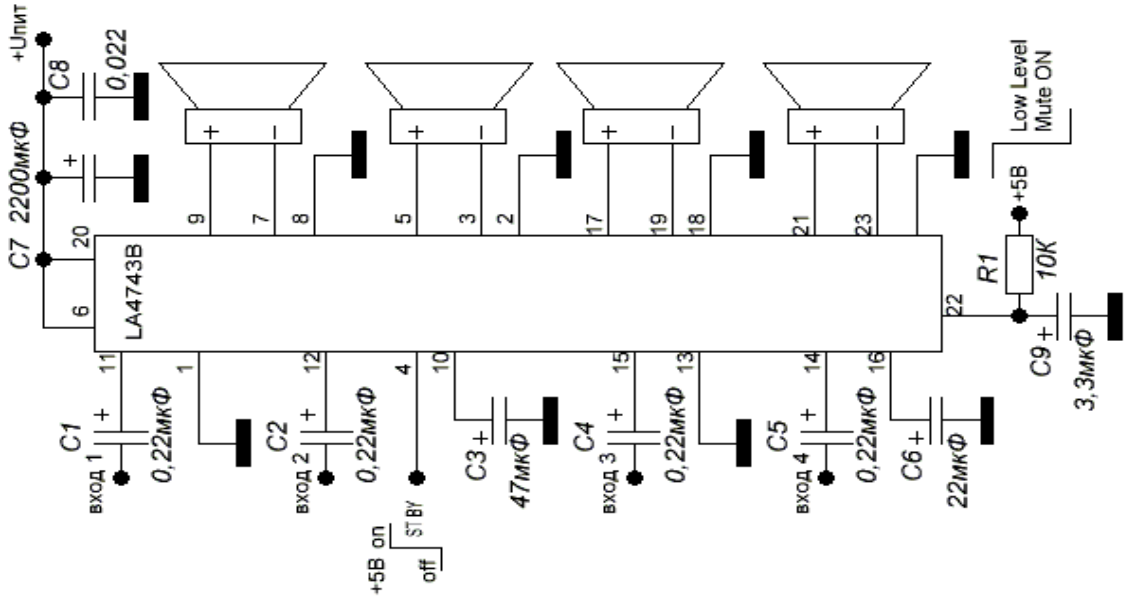
4 KANAL AMPLİFİKATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

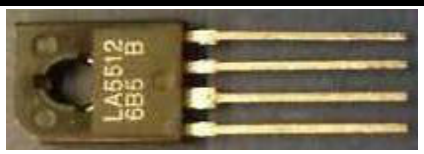




LA5511 / LA5512

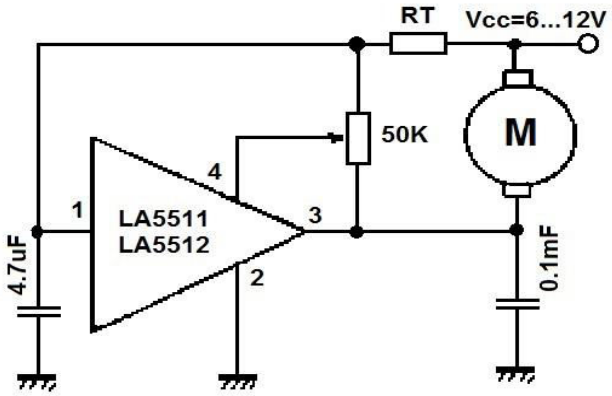
TEYP MOTORU

HIZ KONTROL



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



LA5523

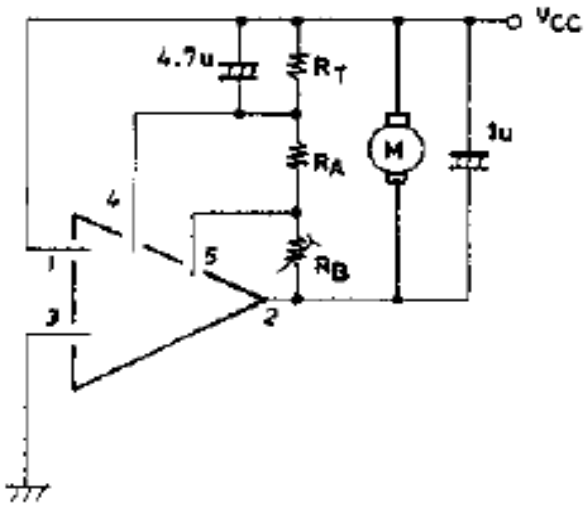
TEYP MOTORU

HIZ KONTROL



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



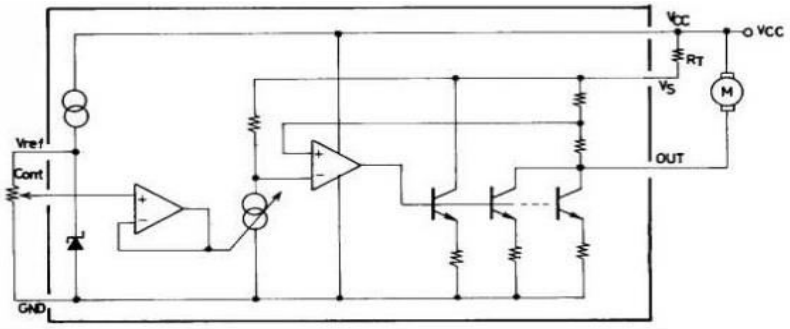
LA5527

TEYP MOTORU

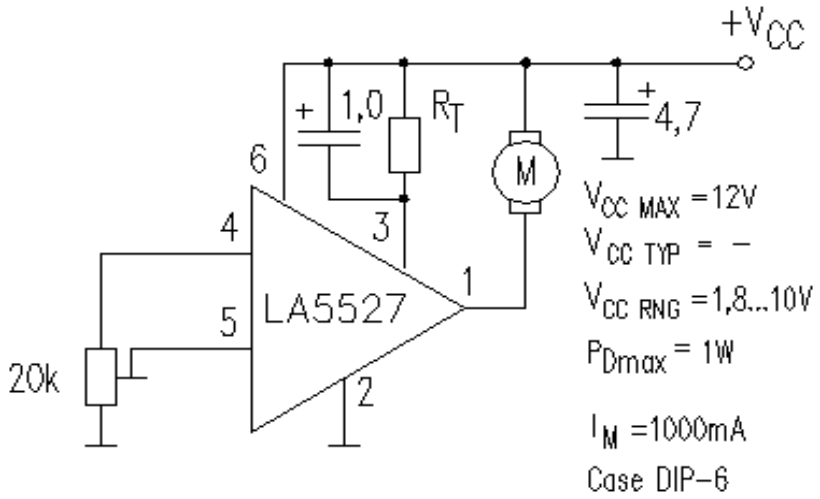
HIZ KONTROL

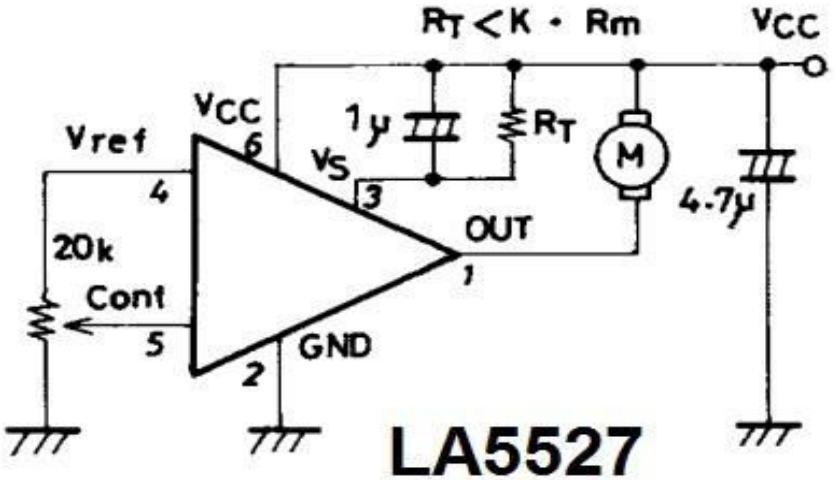


İÇ YAPISI



ÇEŞİTLİ DEVRE ŞEMALARI

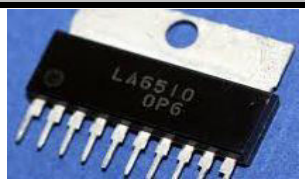




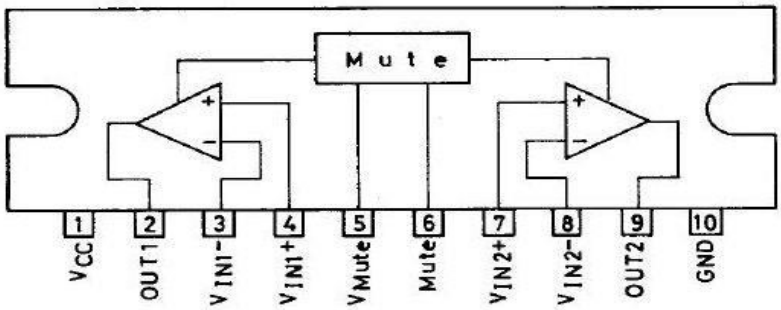
LA6510

1 AMPER AKIM KAPASİTELİ

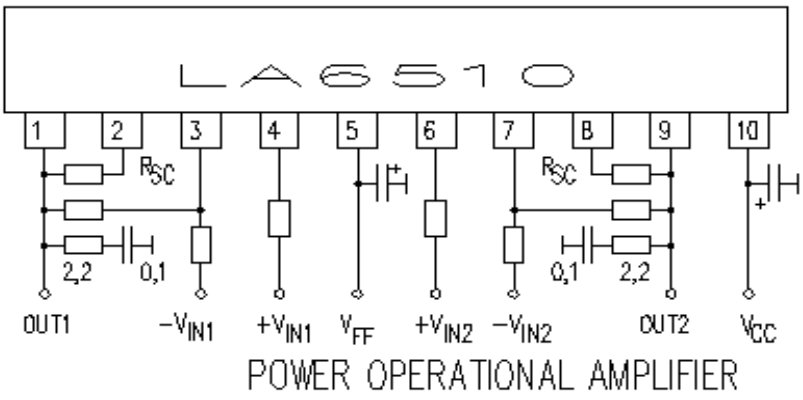
İŞLEM KUVVETLENDİRİCİ



İÇ YAPISI

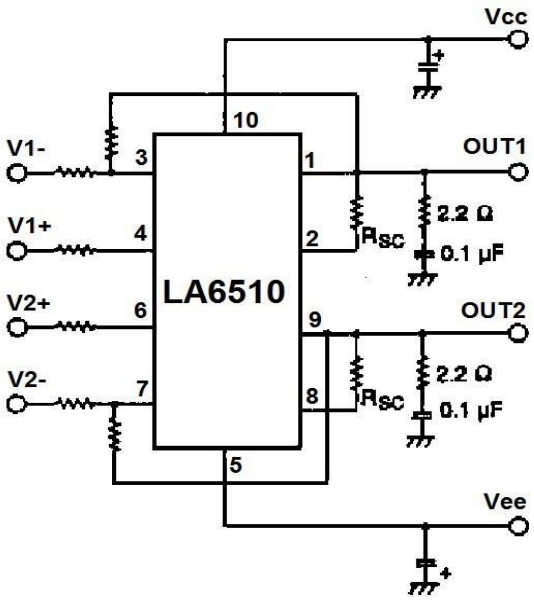


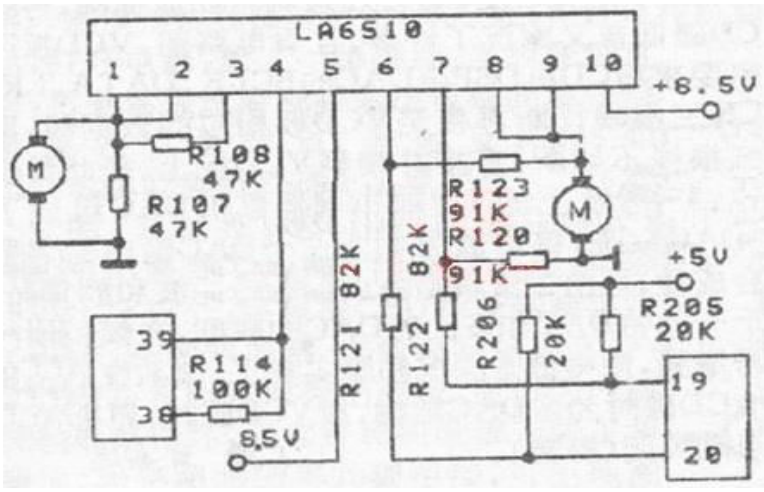
ÇEŞİTLİ DEVRE ŞEMALARI



V_{CC}/V_{EE} = ±18V
$V_{I\,DIF}$ = 30V
$V_{I\,COM}$ = ±14V
I_{OUT} = 1A
I_{CCO} = 12mA typ
Gain = 100dB
P_D = 2,5W max

POWER OPERATIONAL AMPLIFIER

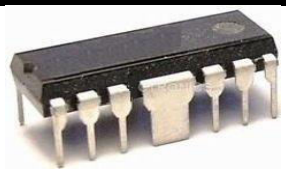




LA6520

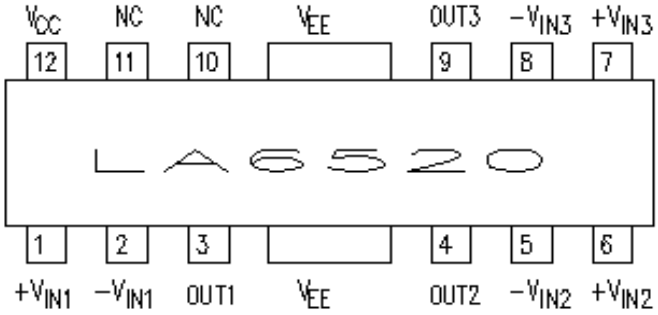
3 ÇIKIŞLI

GÜÇLÜ İŞLEM KUVVETLENDİRİCİ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI



3−OUTPUT POWER
OPERATIONAL AMPLIFIER

$V_{CC}/V_{EE} = \pm 18V$
$V_{IDIF} = 30V$
$V_{ICOM} = \pm 15V$

$I_{OUT} = 0,5A$
$I_{CCO} = 20mA$ typ
Gain = 85dB

$P_D = 1,9W$ max
Case DIP−12F

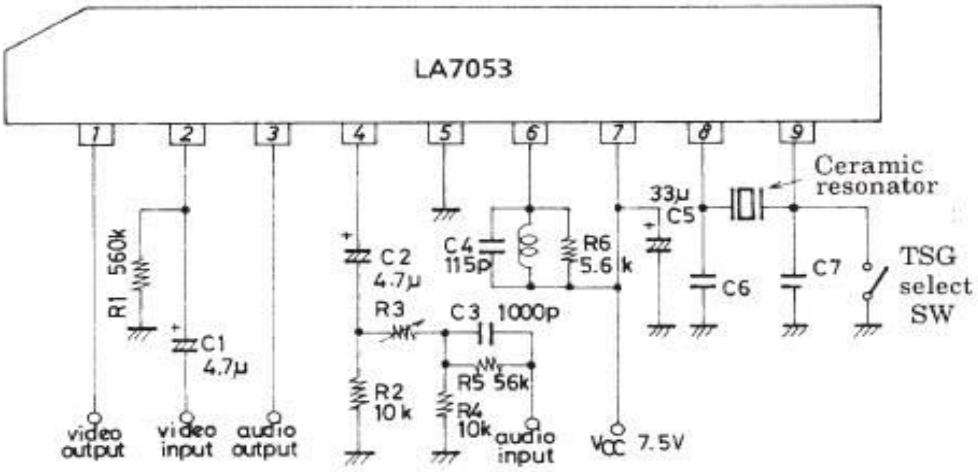
LA7053

UHF BANDI RADYO FREKANS MODÜLATÖRÜ



İÇ YAPISI

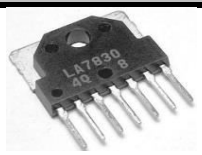
ÇEŞİTLİ DEVRE ŞEMALARI



LA7830

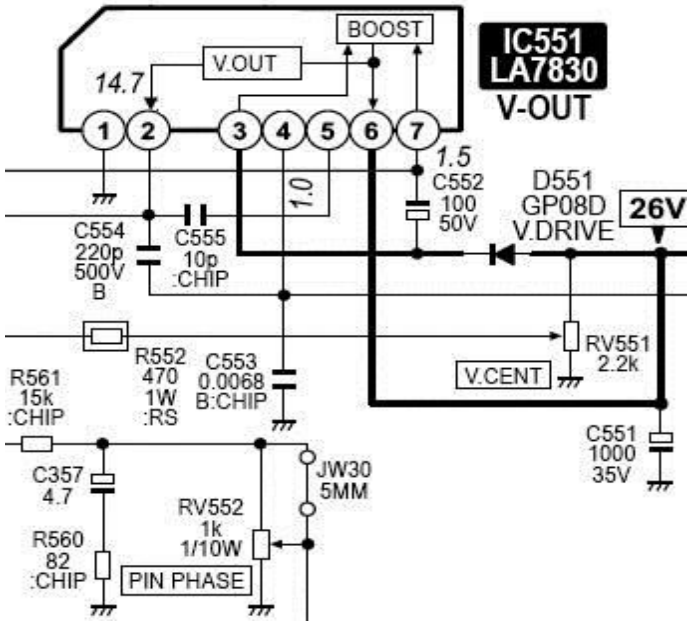
RENKLİ TELEVİZYON

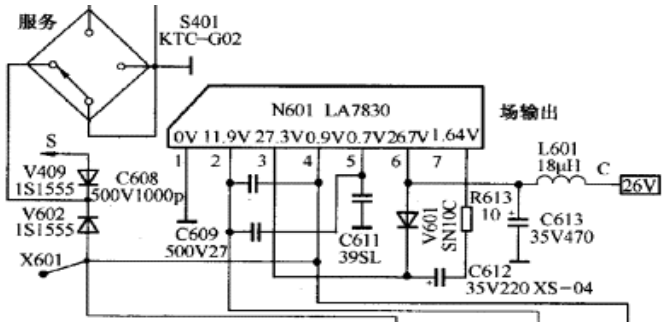
DİKEY SAPTIRMA DEVRESİ

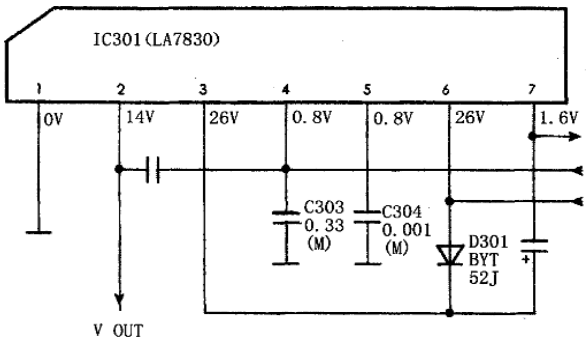


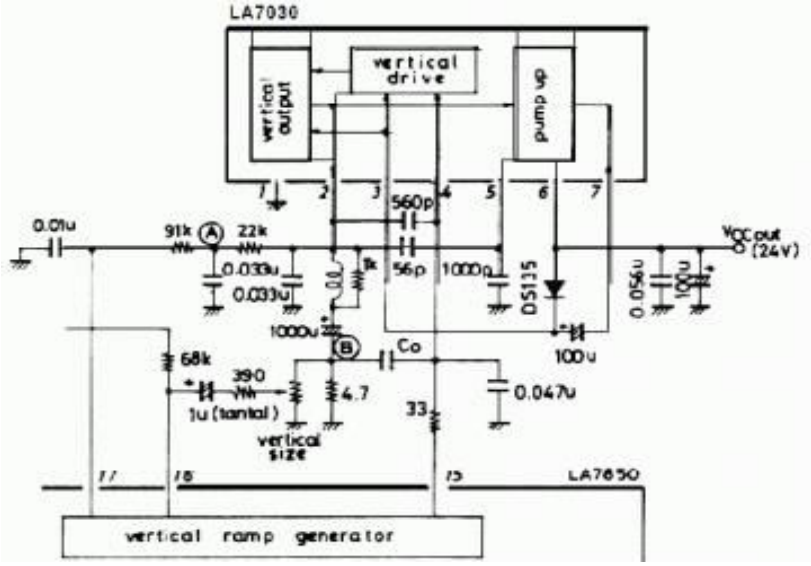
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





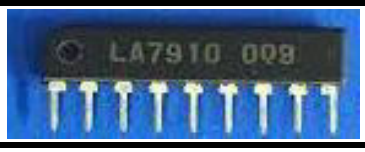




LA7910

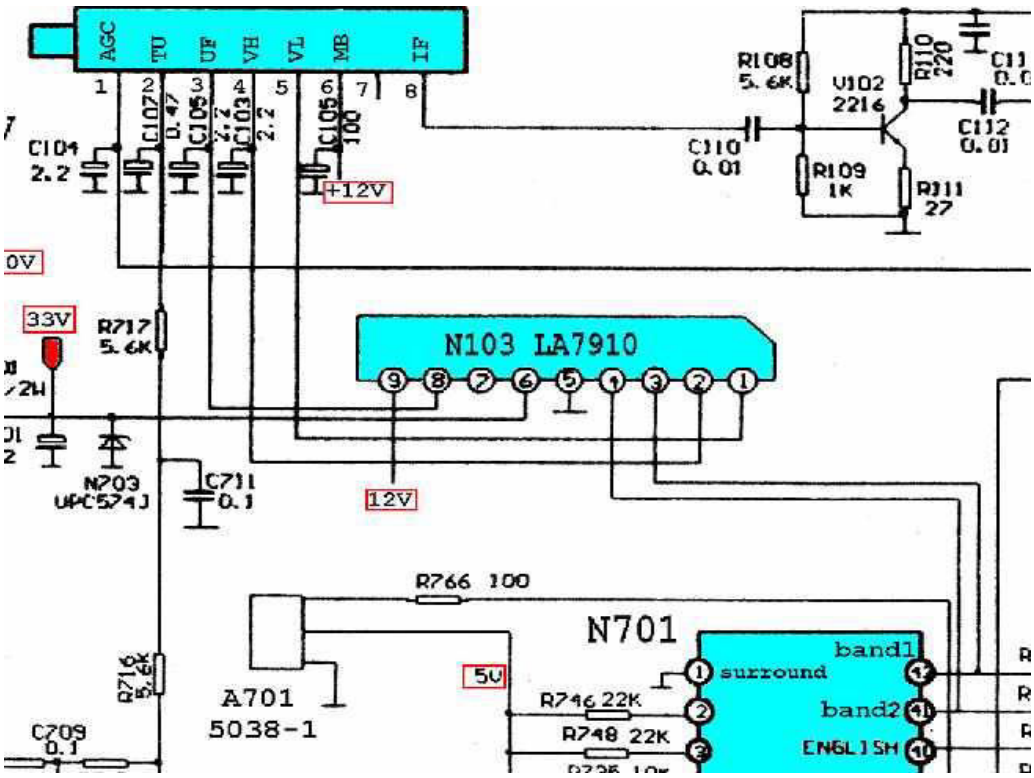
TV TUNER

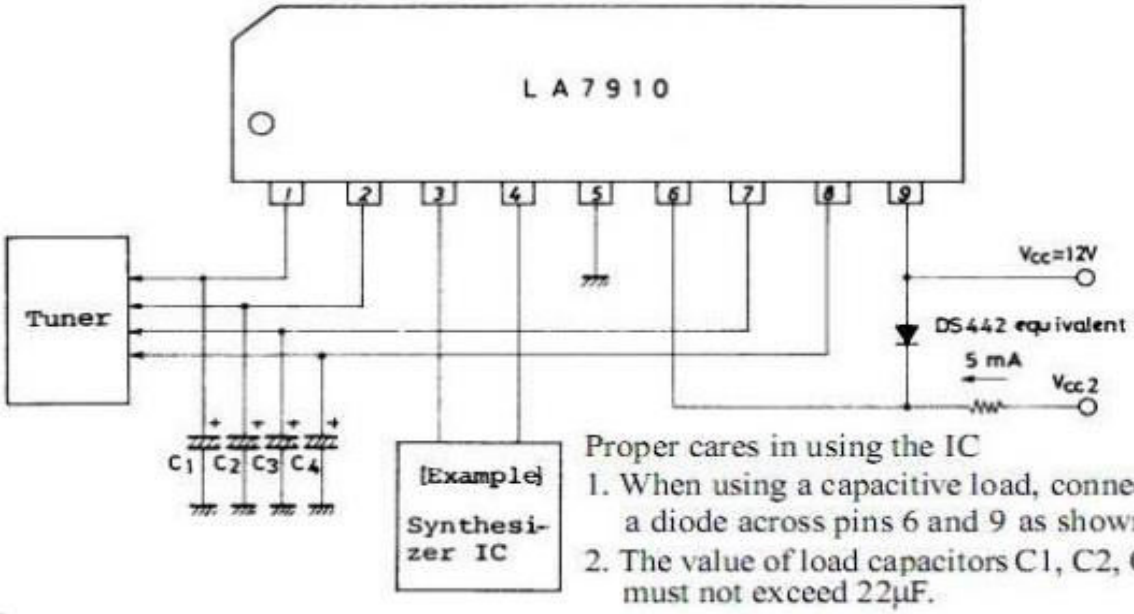
BAND SEÇİCİ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





Proper cares in using the IC

1. When using a capacitive load, connect a diode across pins 6 and 9 as shown above.
2. The value of load capacitors C1, C2, C3, C4 must not exceed 22μF.

LB1403N

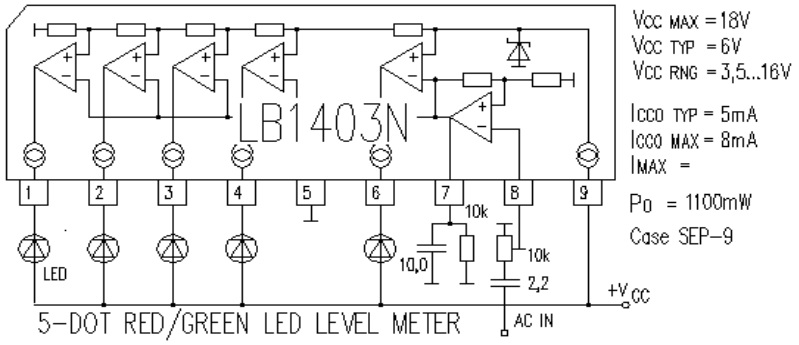
5 LEDLİ

VU METRE



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

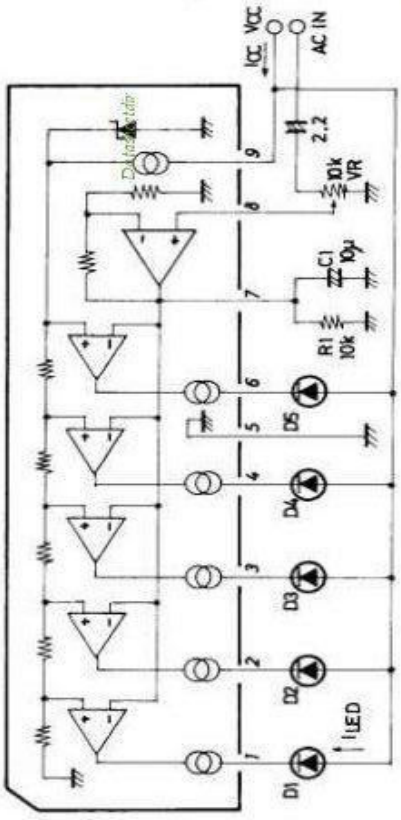


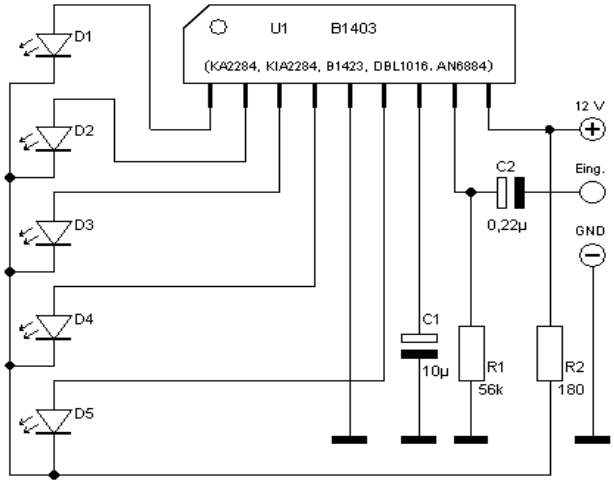
Vcc MAX = 18V
Vcc TYP = 6V
Vcc RNG = 3,5...16V

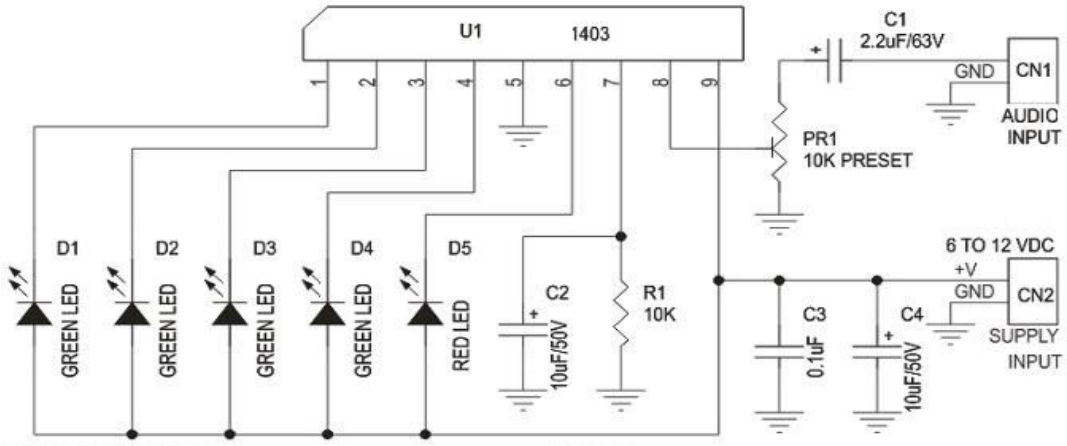
Icco TYP = 5mA
Icco MAX = 8mA
IMAX =

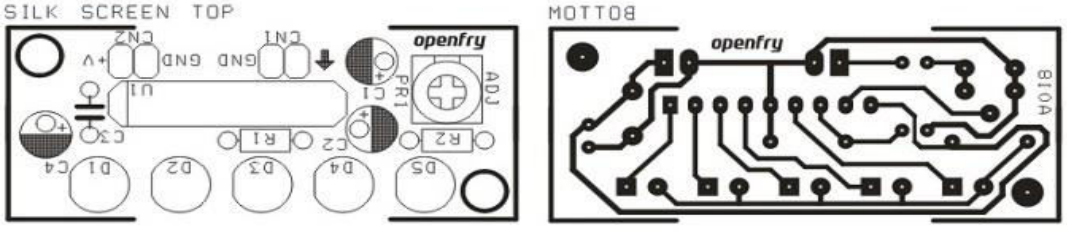
Po = 1100mW

Case SEP-9









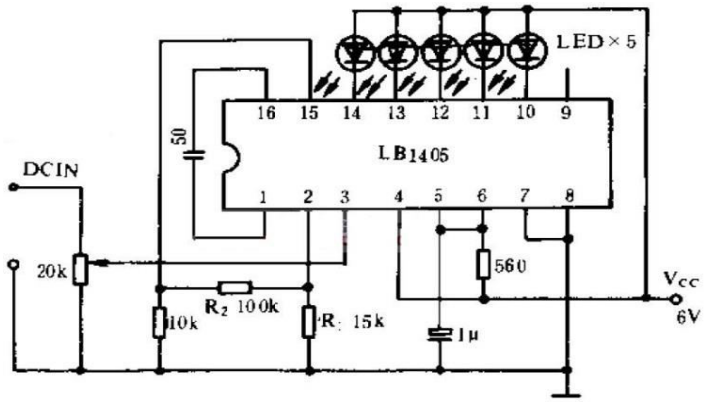
LB1405

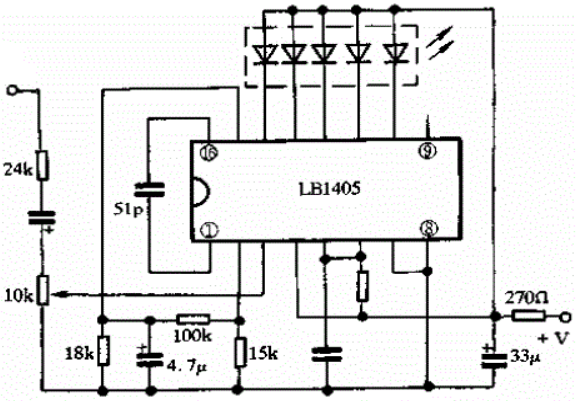
5 LEDLİ
VU METRE

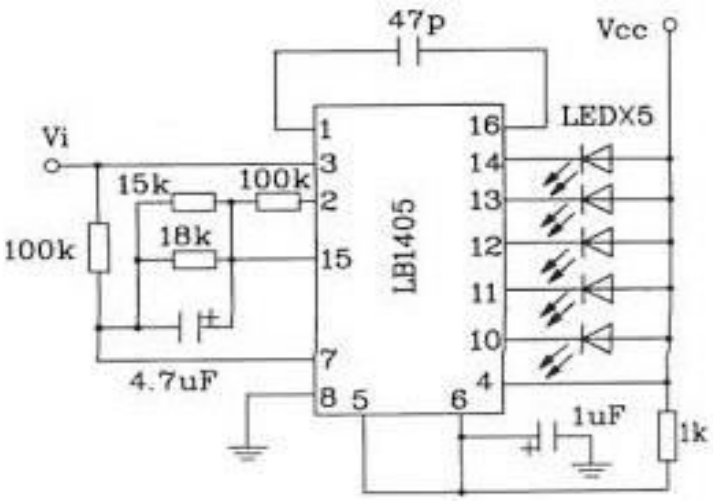


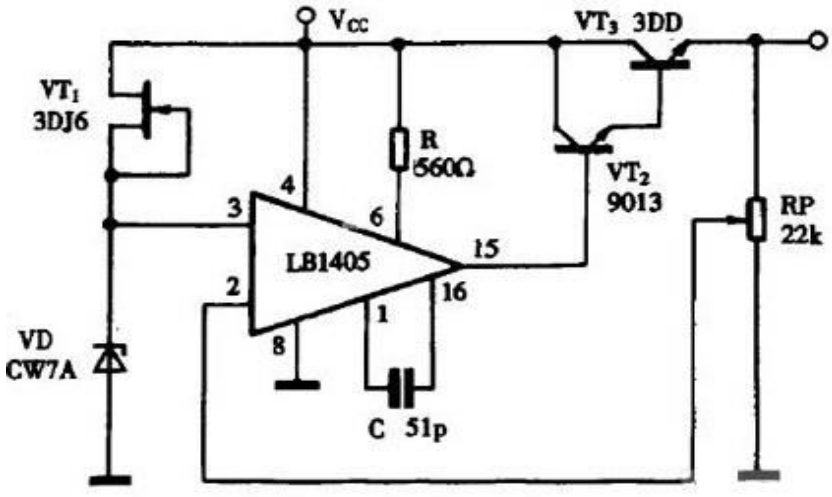
İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI









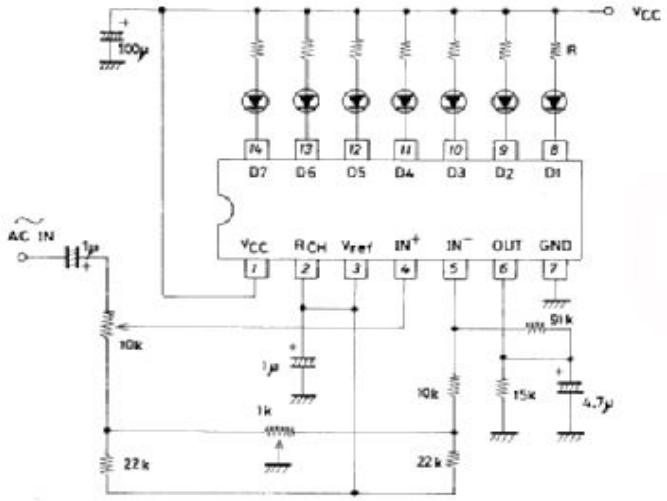
LB1407 / LB1417

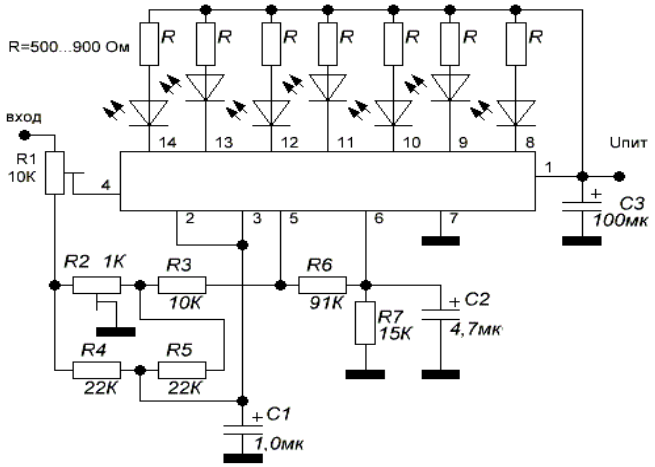
7 LEDLİ
VU METRE

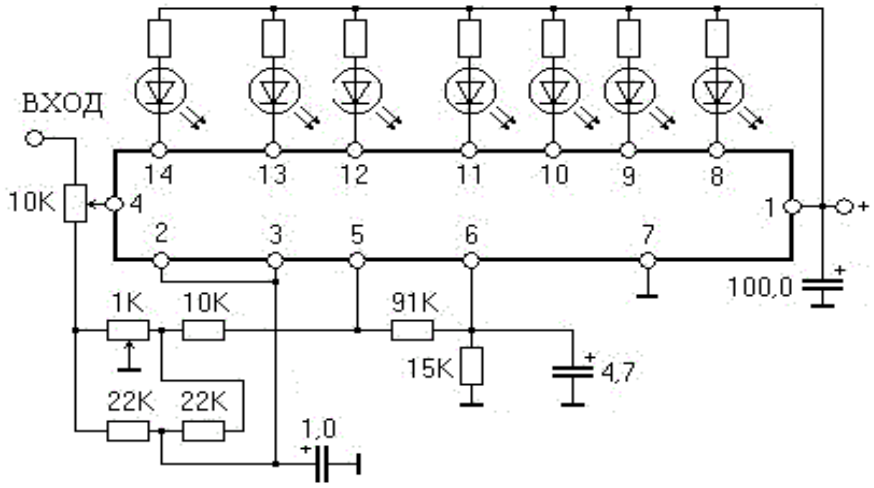


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ÇEŞİTLİ DEVRE ŞEMALARI







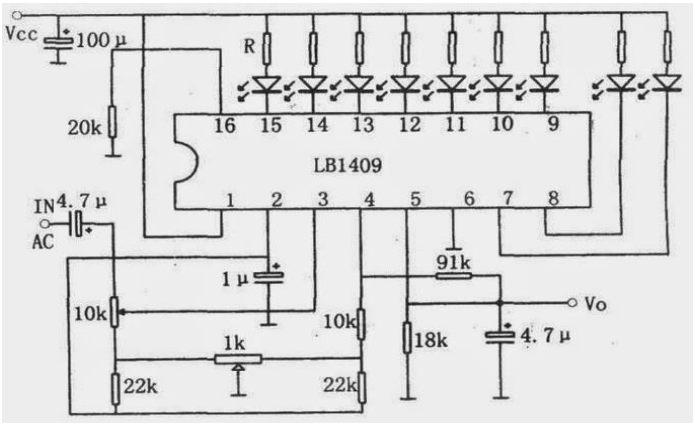
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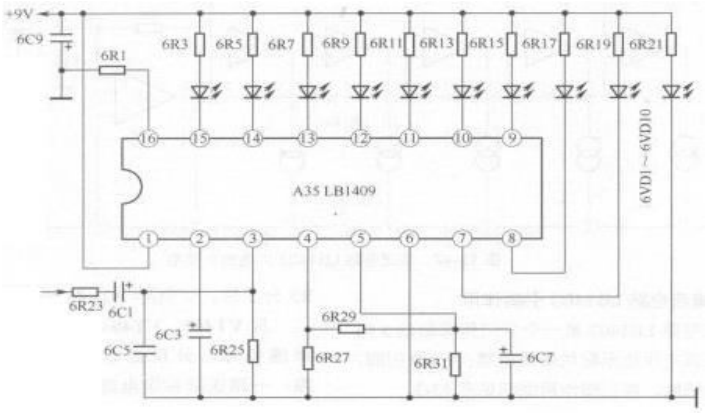
9 LEDLİ
VU METRE

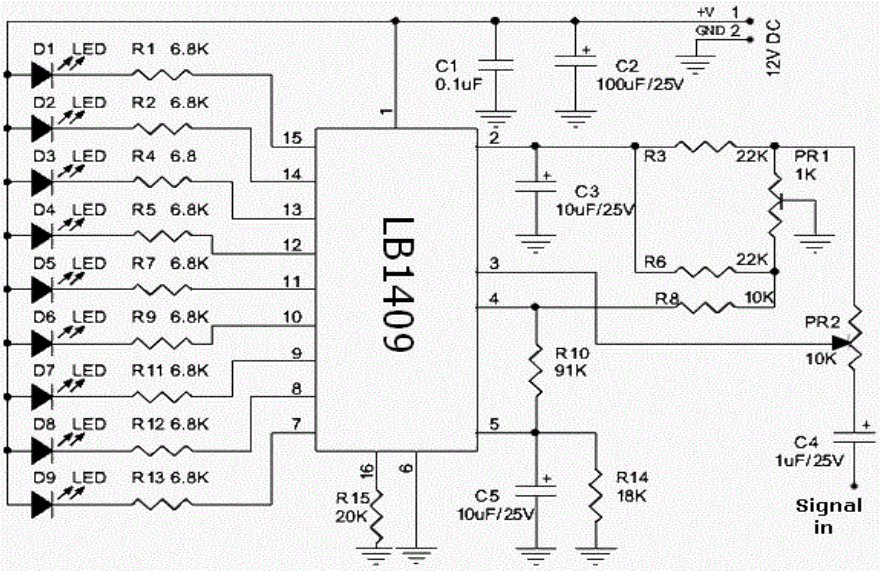


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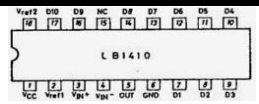






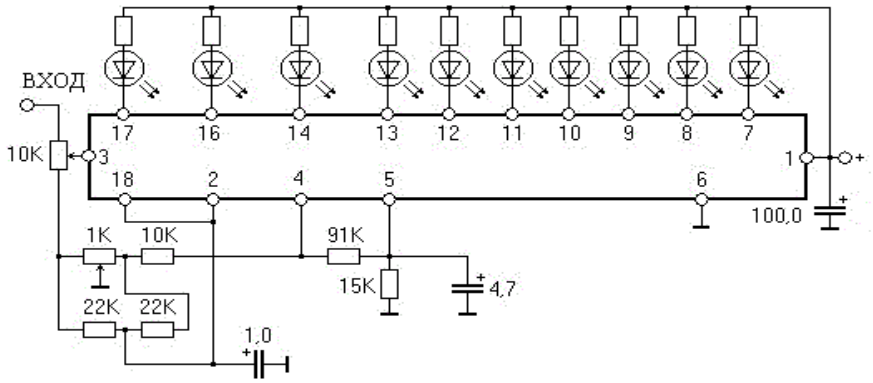
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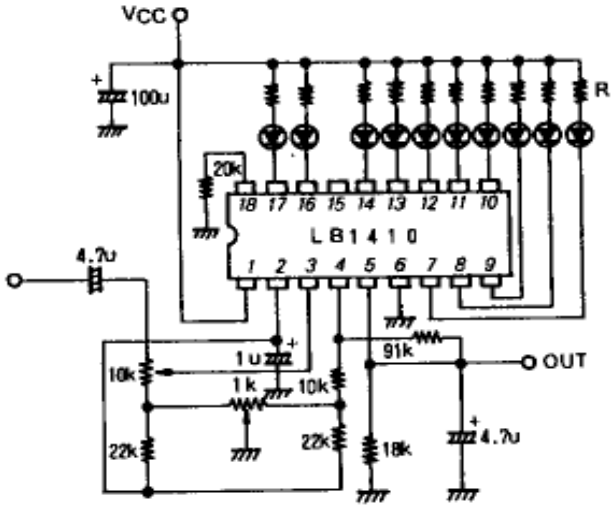
10 LEDLİ
VU METRE

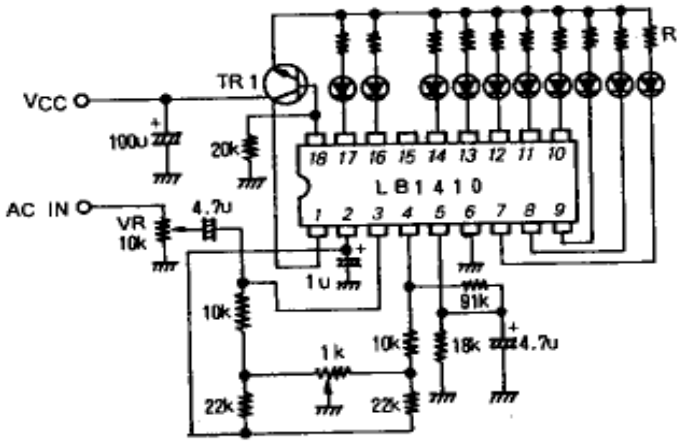


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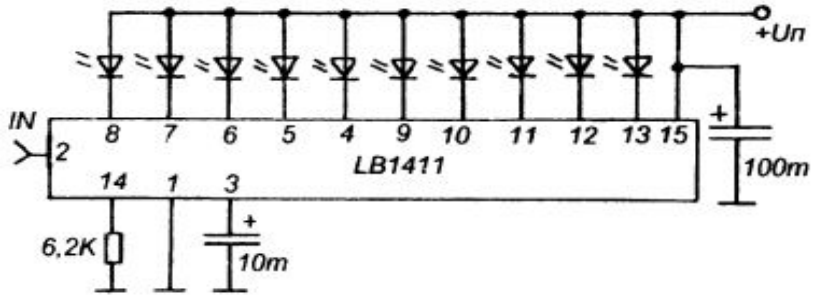
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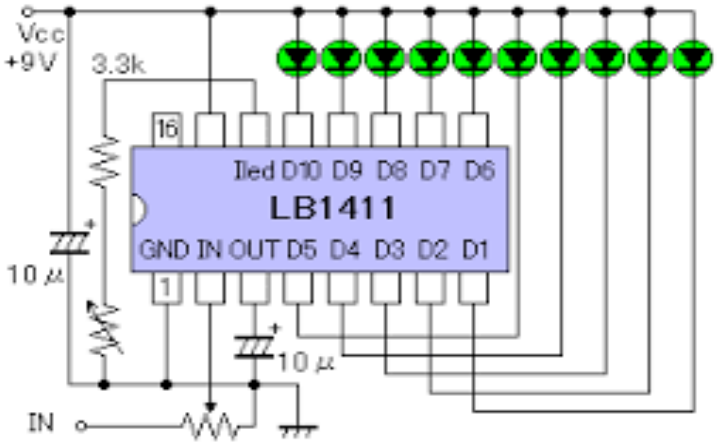
10 LEDLİ
VU METRE

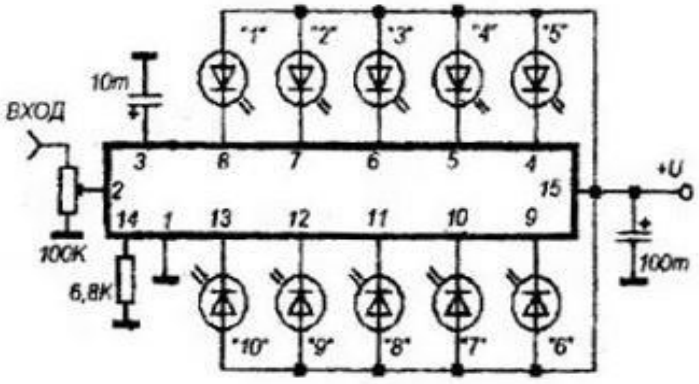


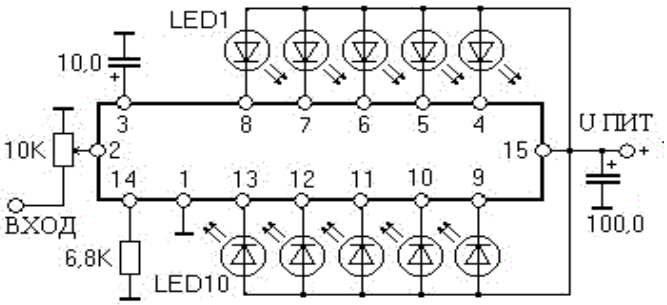
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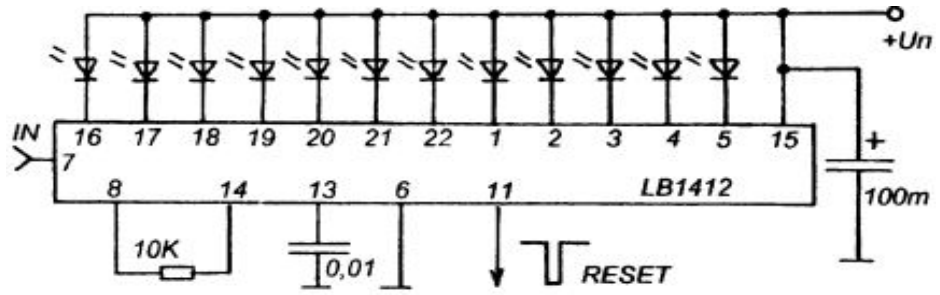
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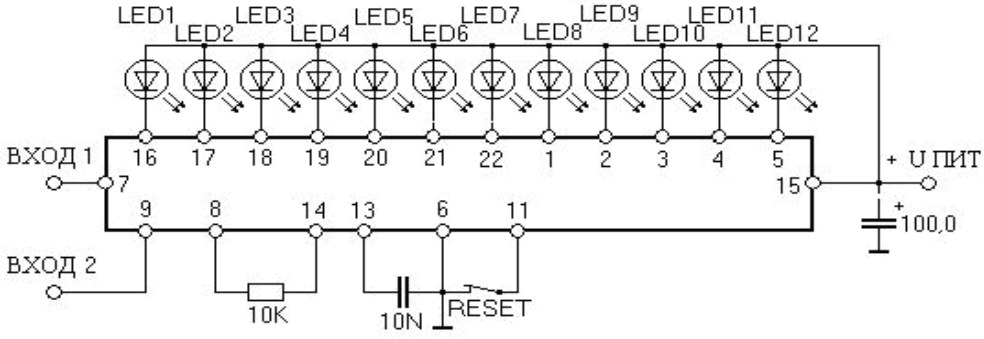
12 LEDLİ
VU METRE

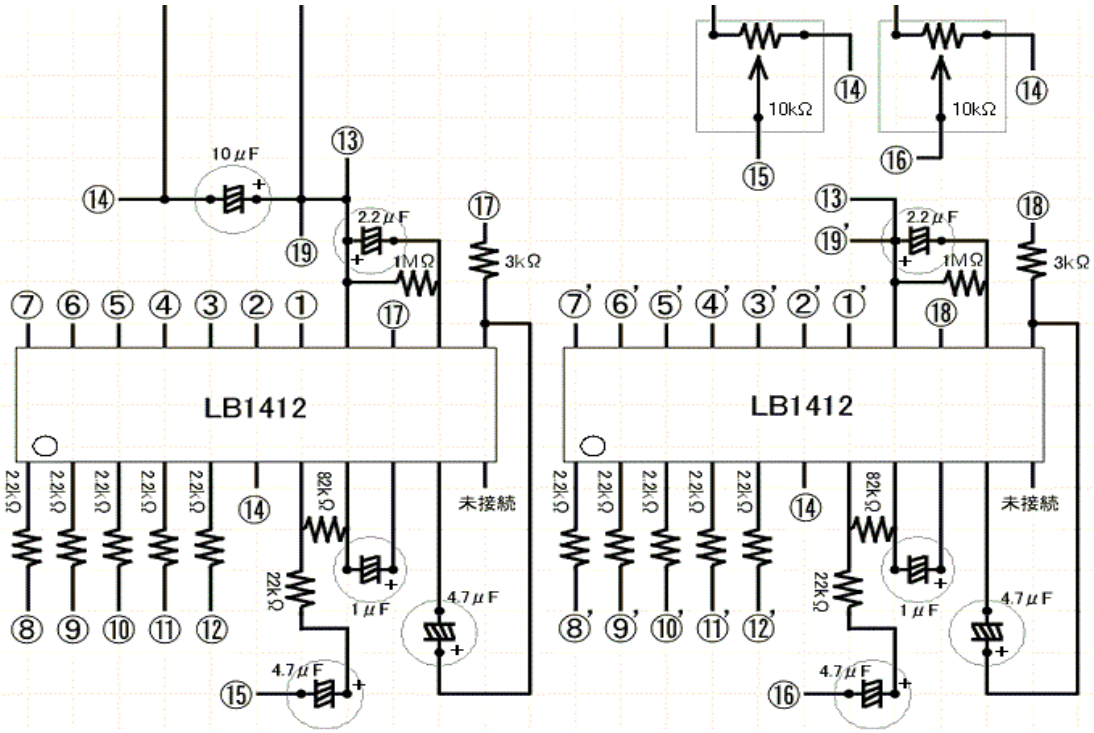


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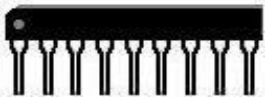






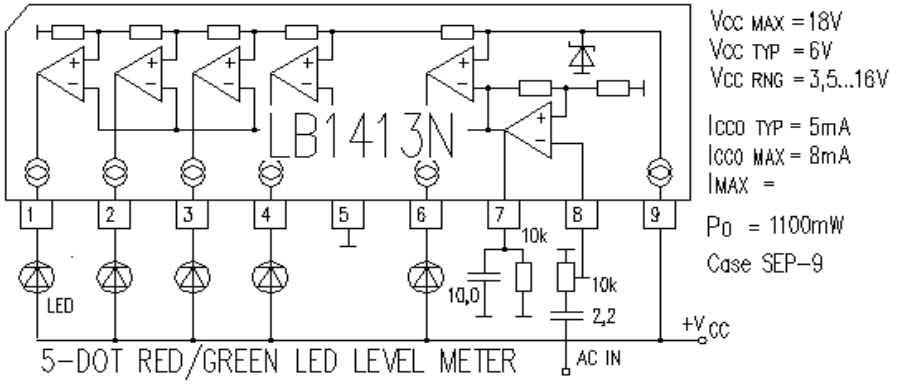
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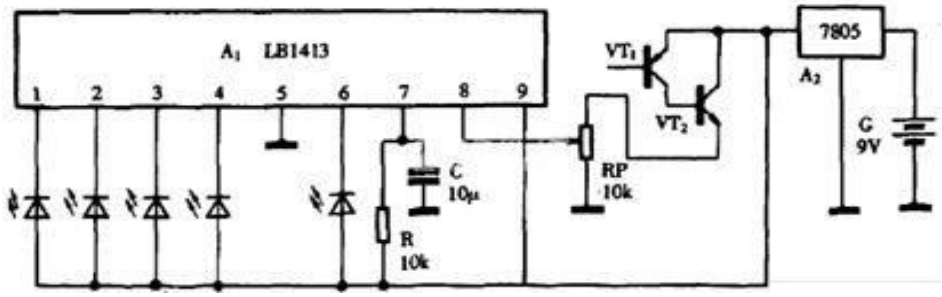
5 LEDLİ
VU METRE

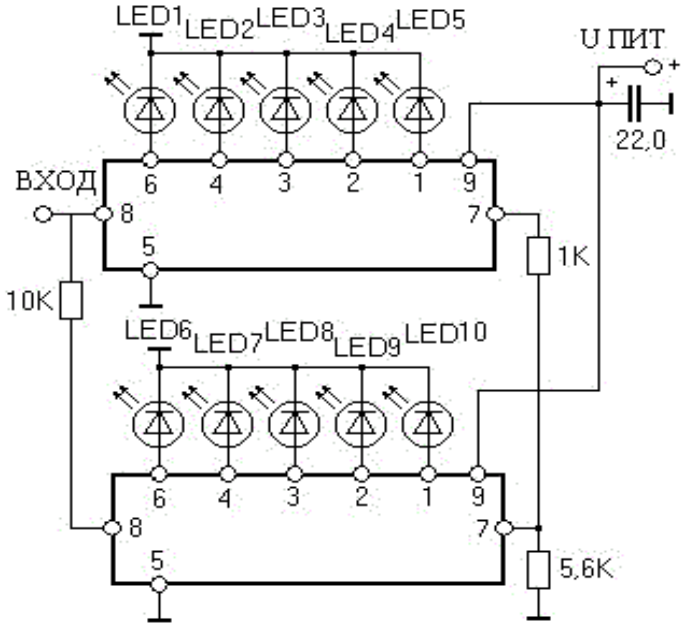


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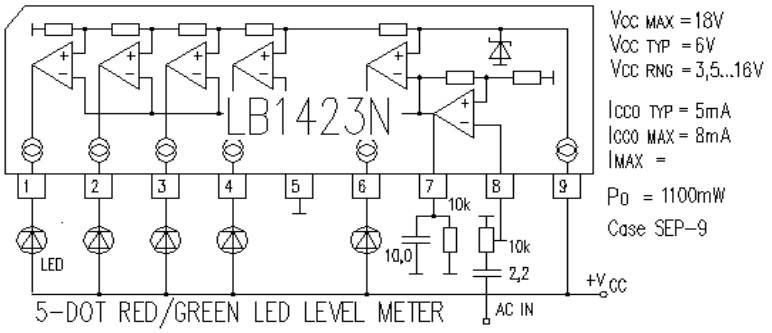
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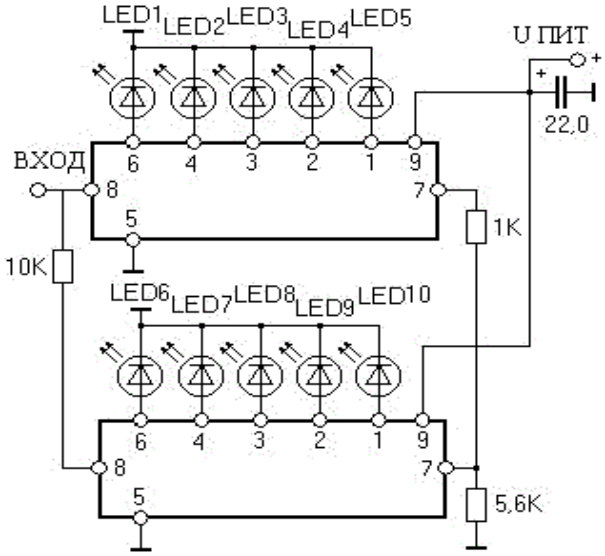
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VU METRE

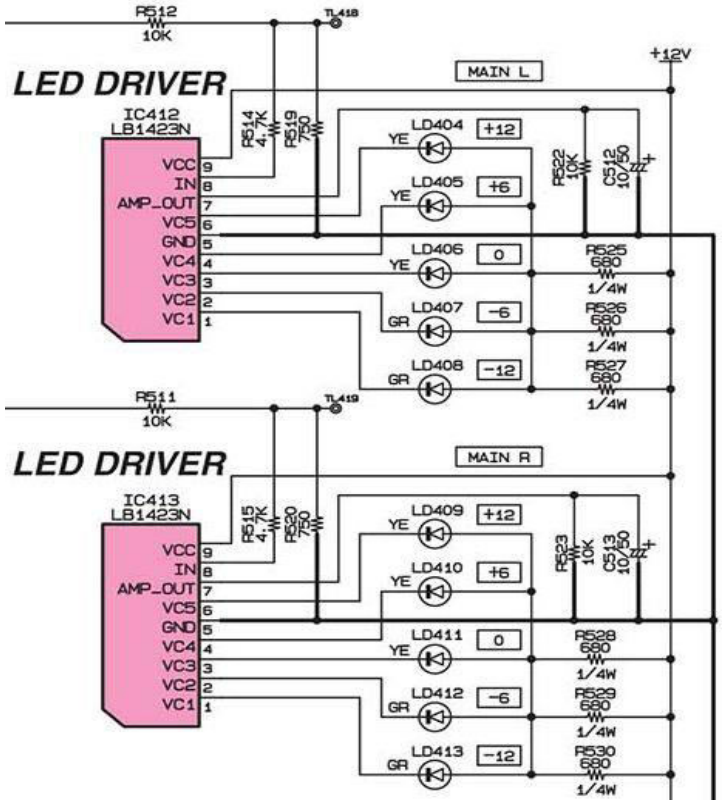


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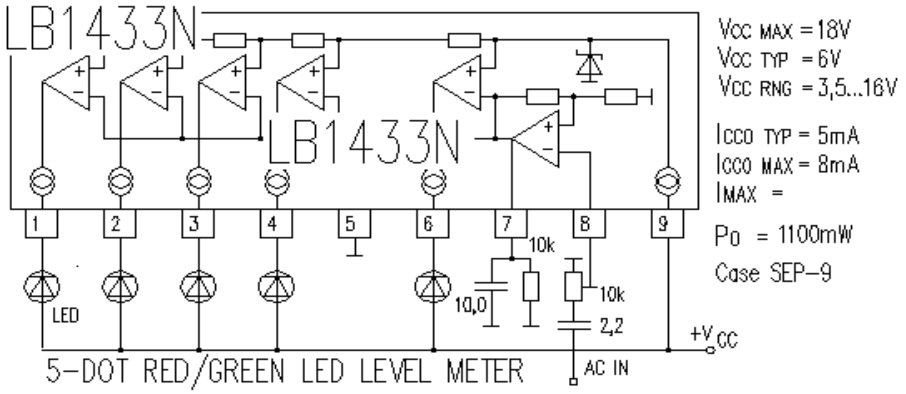
LB1433N

5 LEDLİ
VU METRE



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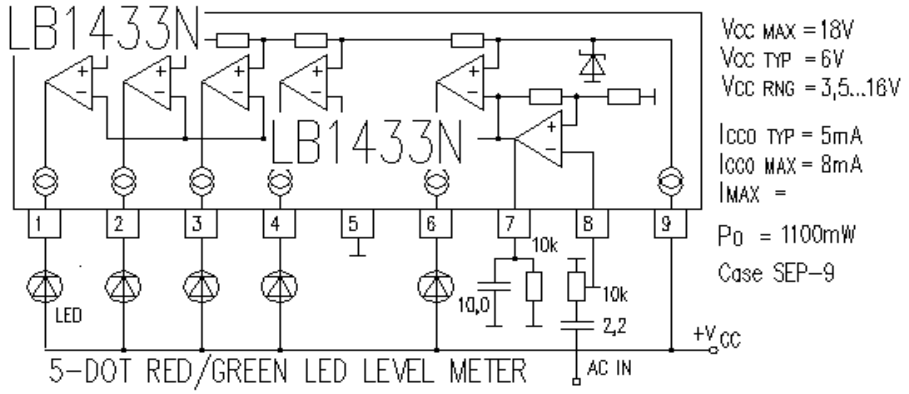
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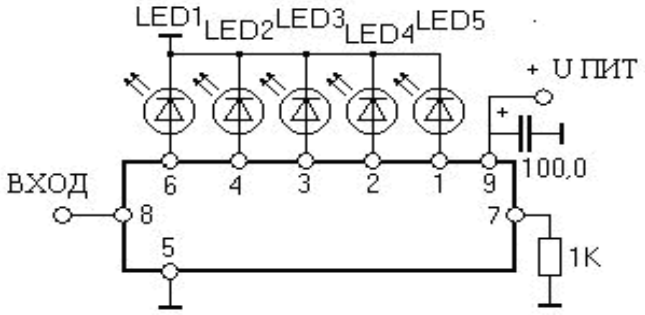
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VU METRE

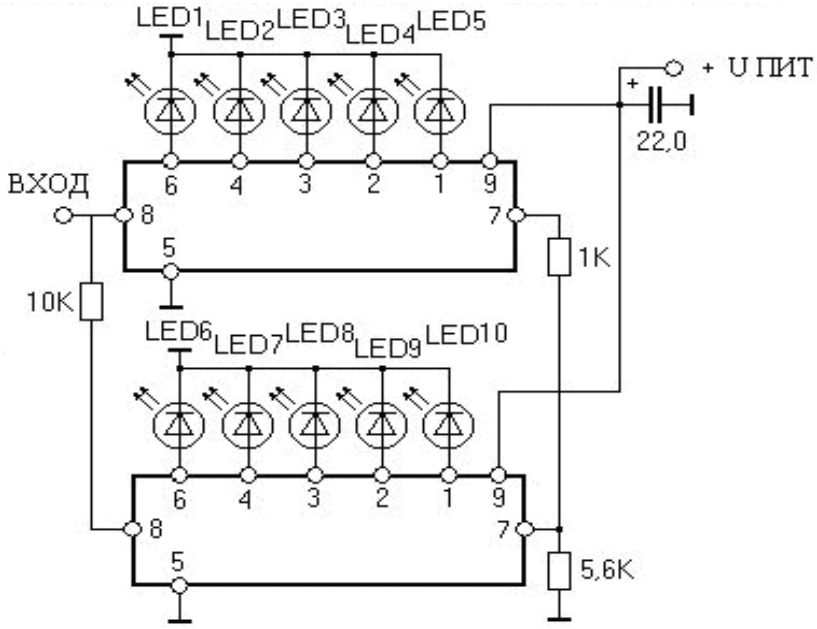


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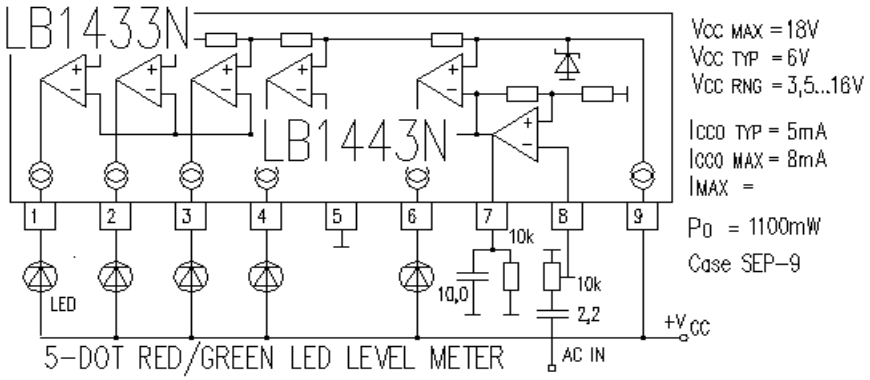
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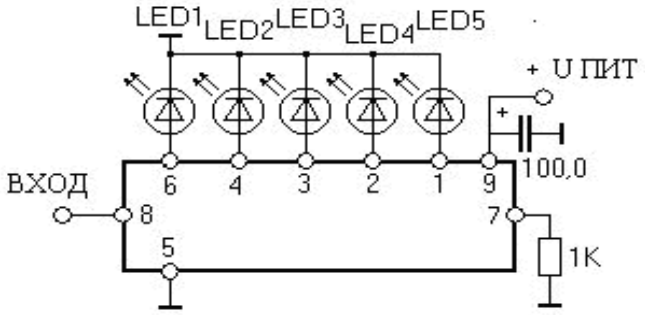
5 LEDLİ
VU METRE

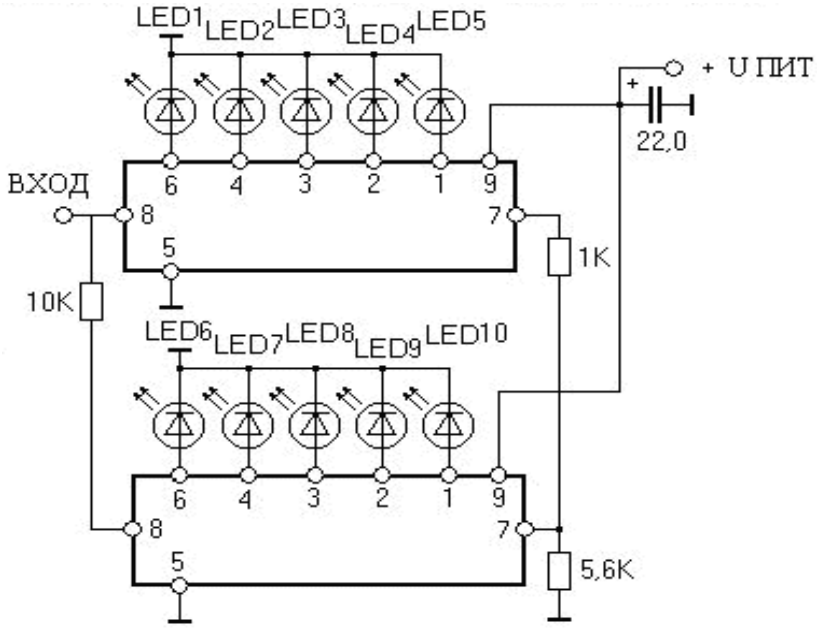


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LB1640N

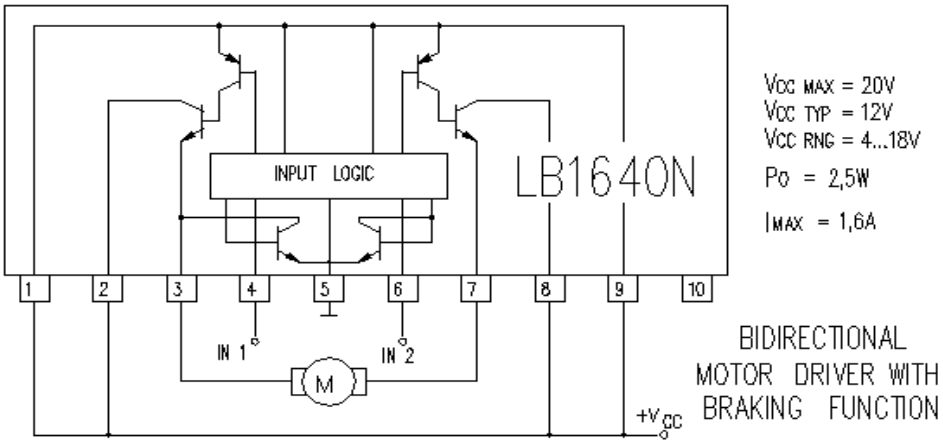
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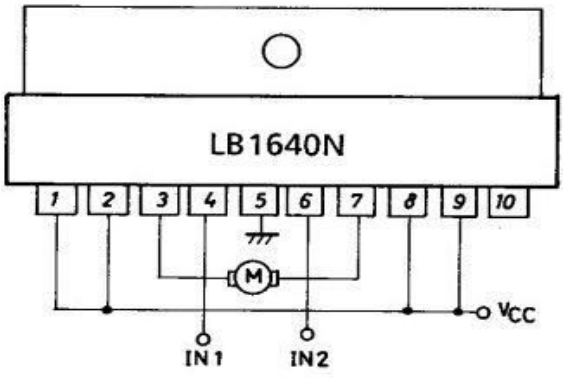
SÜRÜCÜSÜ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





LB1641

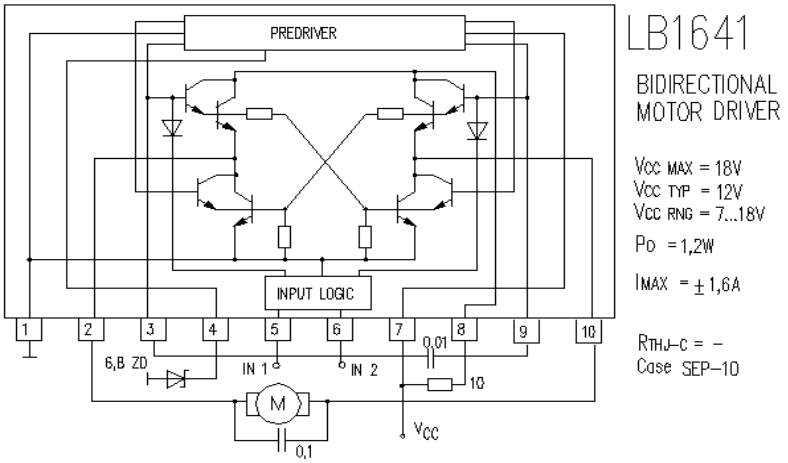
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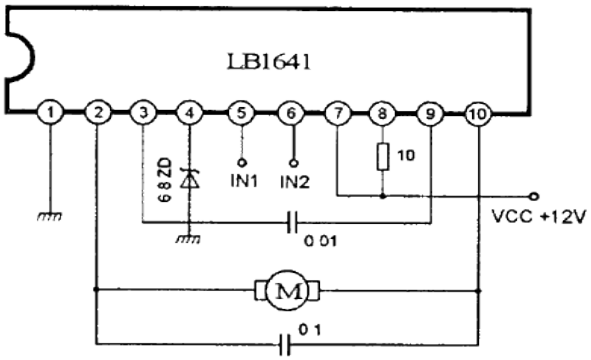
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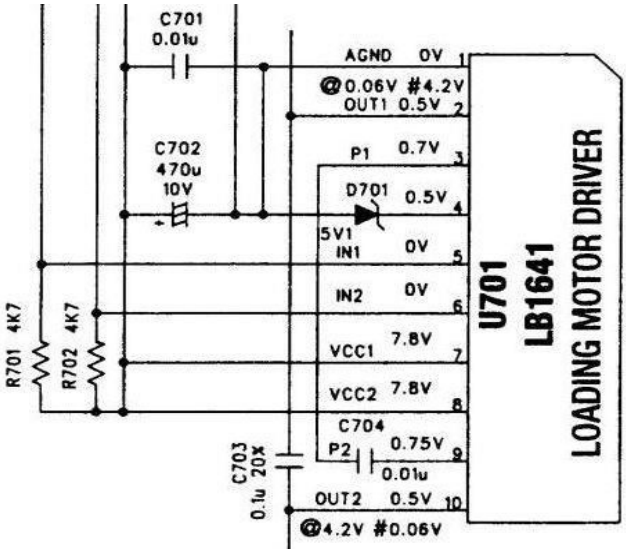


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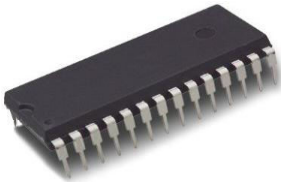




LC7523

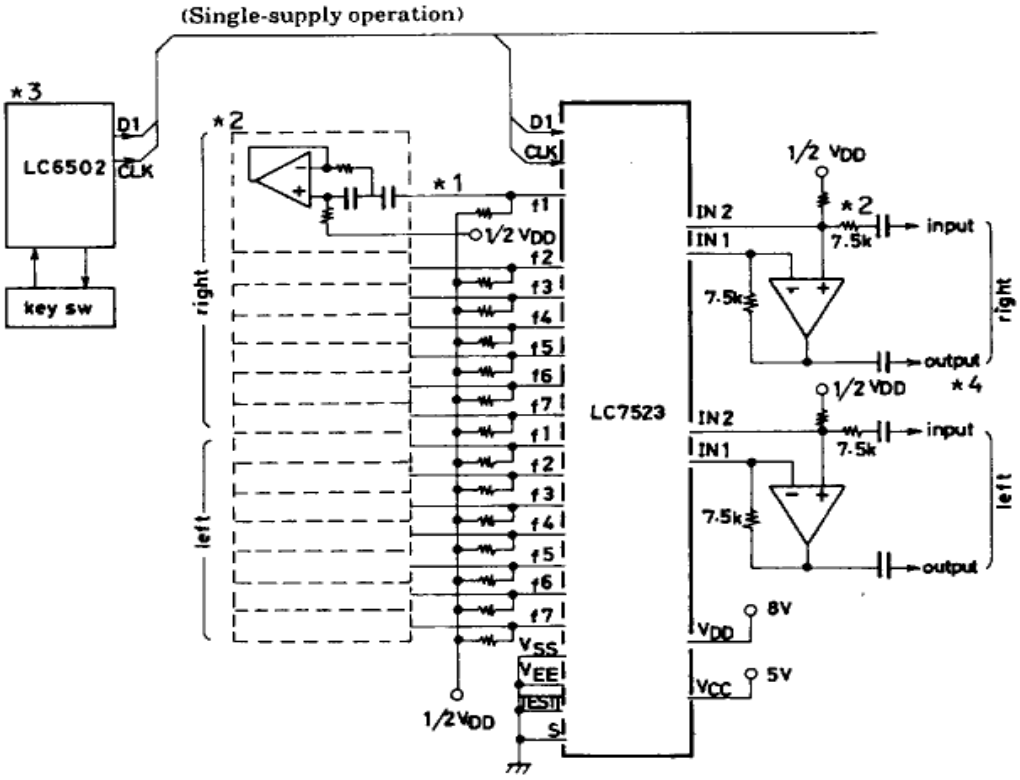
GRAFİK EQUALİZER İÇİN

ELEKTRONİK VOLÜM KONTROL



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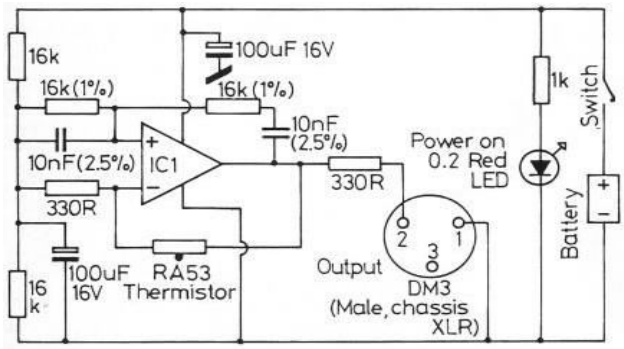
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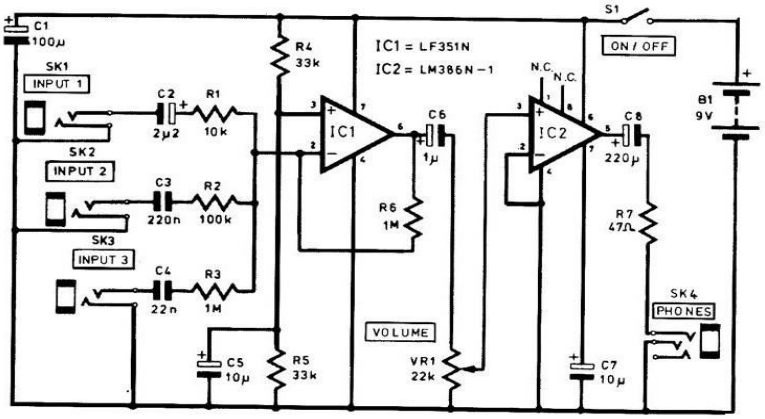
(JFET) İŞLEM KUVVETLENDİRİCİ

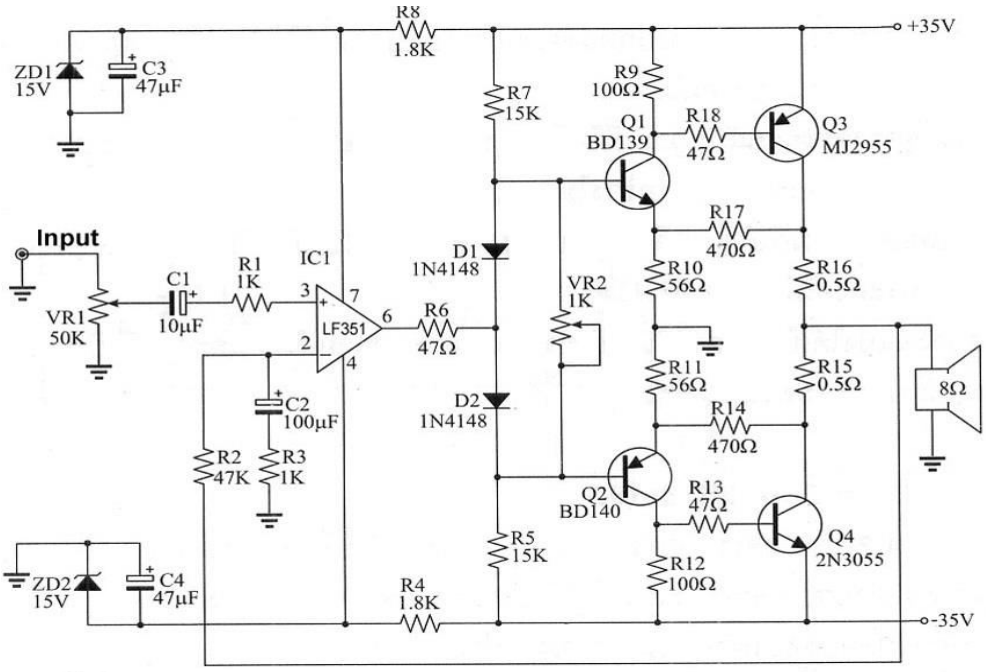


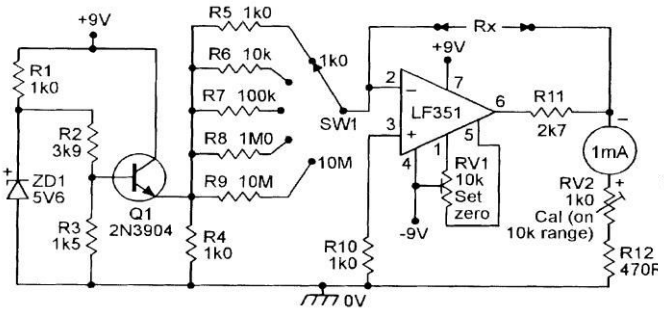
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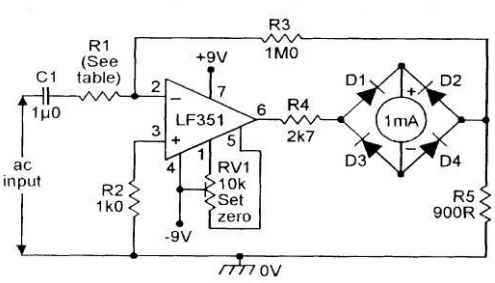
ÇEŞİTLİ DEVRE ŞEMALARI











V_{fsd}	R1
1V0	1M0
100mV	100k
10mV	10k
1mV	1k0

Note:-
D1-D4 are germanium diodes.

LM324

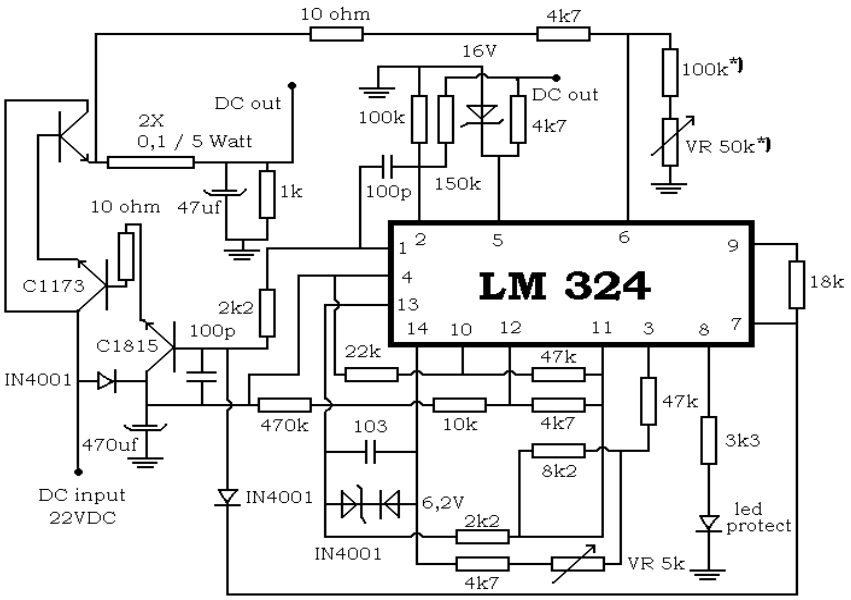
DİFERANSİYEL GİRİŞLİ

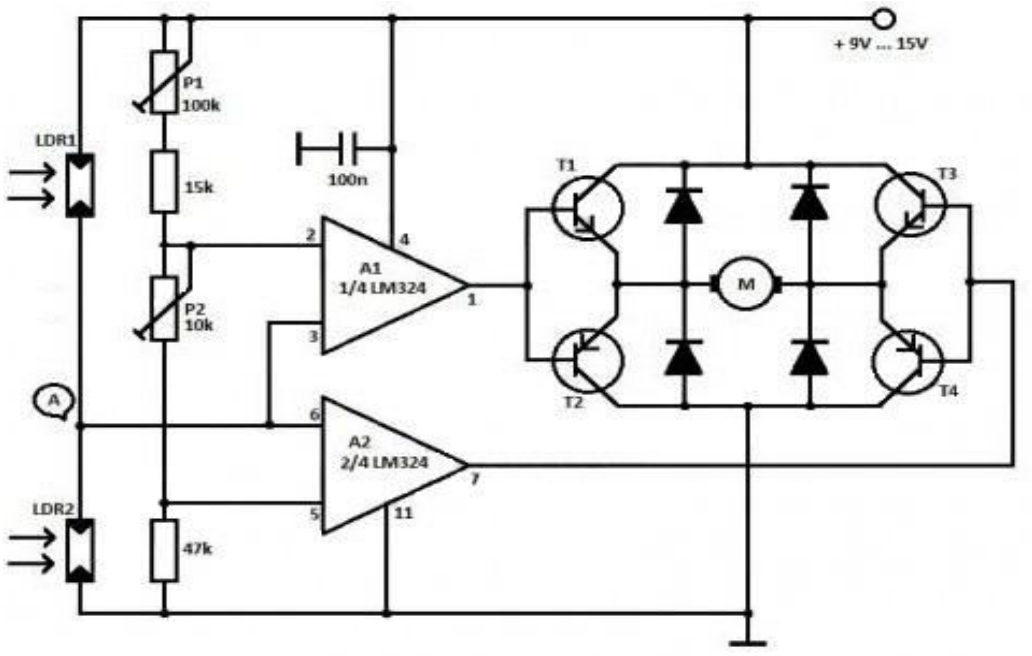
DÖRTLÜ İŞLEM KUVVETLENDİRİCİ



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI





LM378

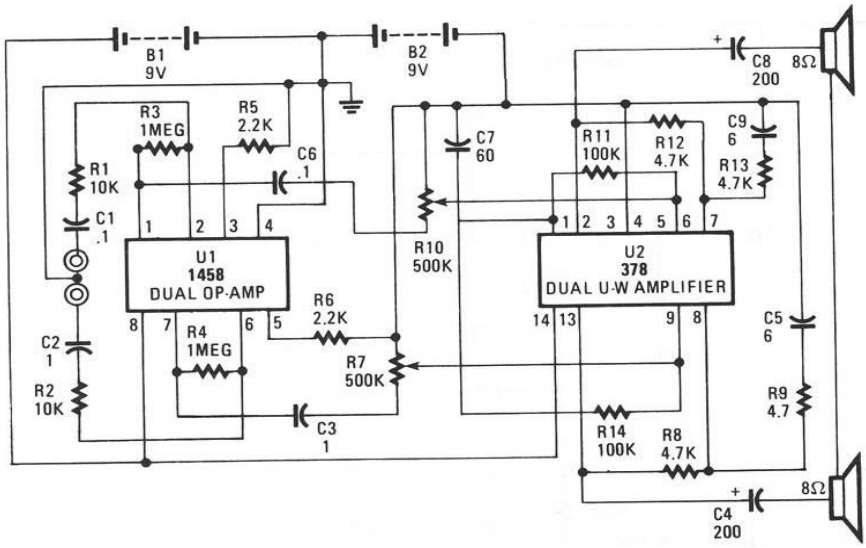
4 WATT

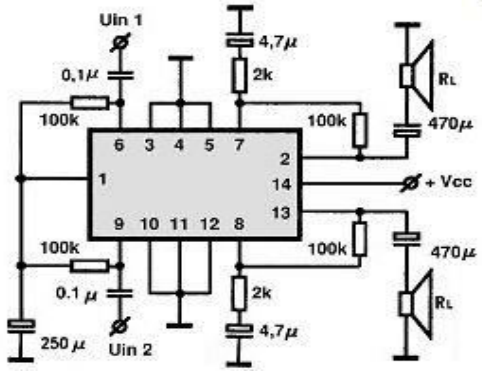
AMPLİFİKATÖR

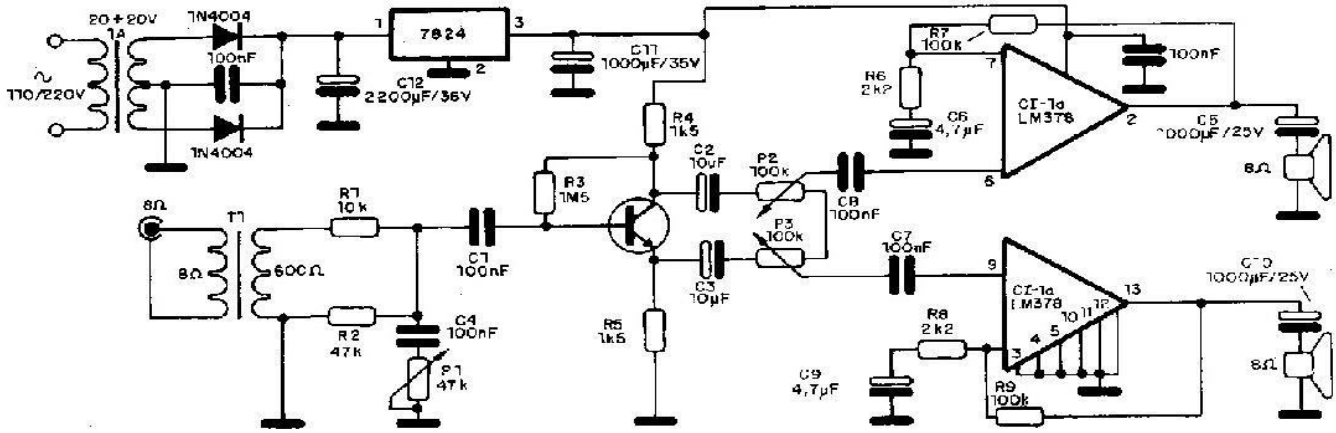


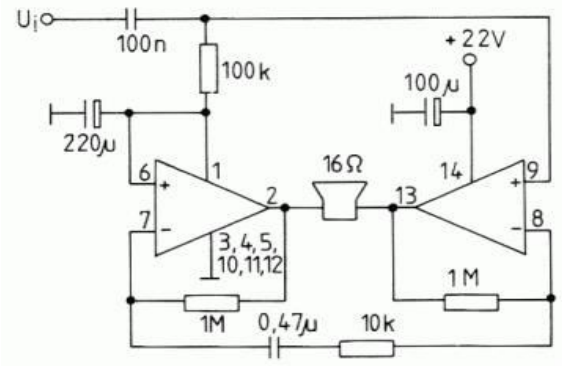
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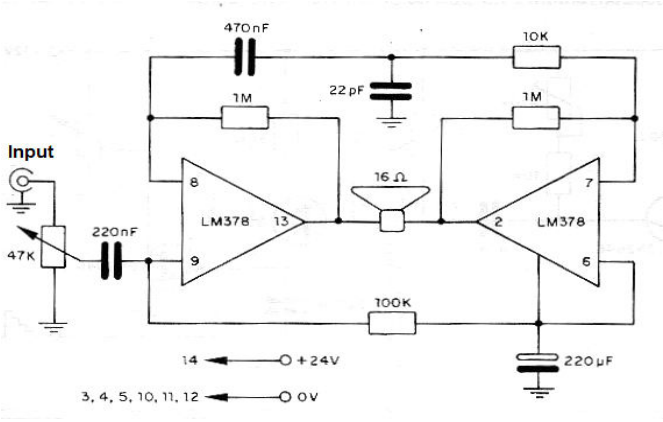
ÇEŞİTLİ DEVRE ŞEMALARI











LM380N

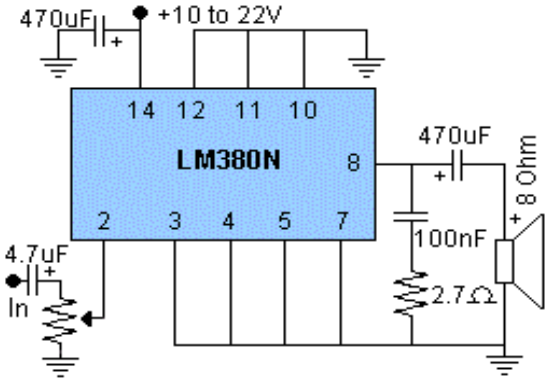
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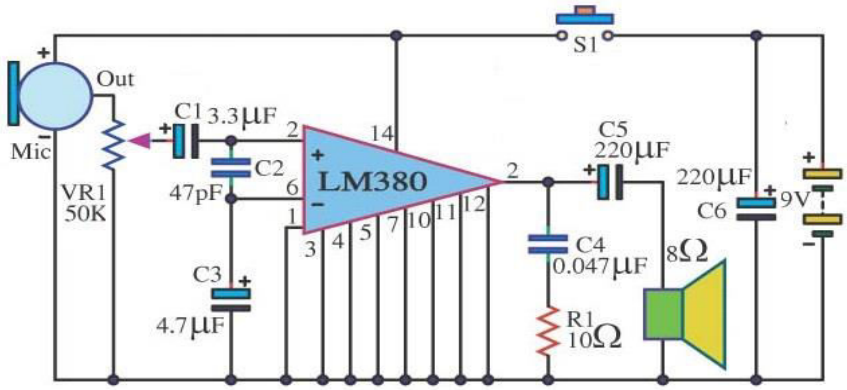
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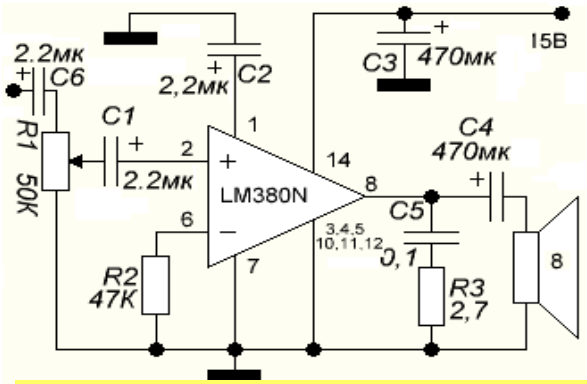


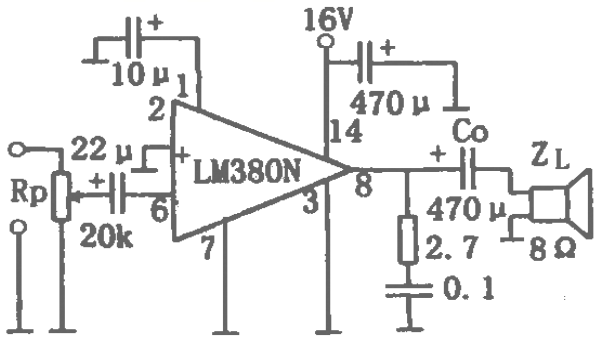
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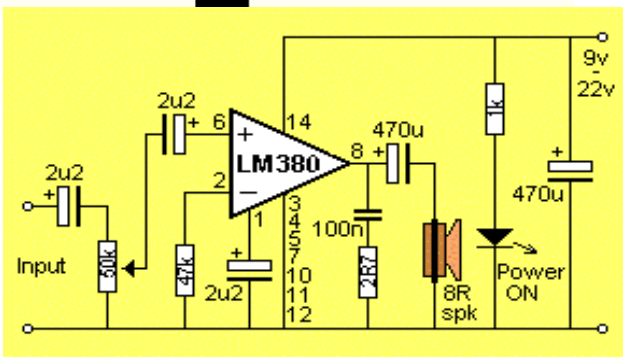
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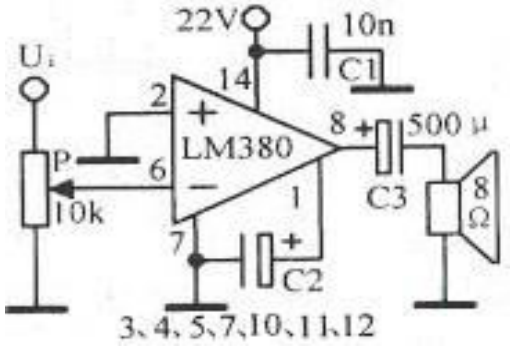


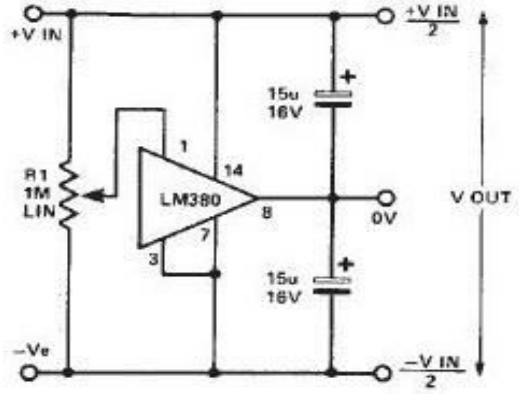


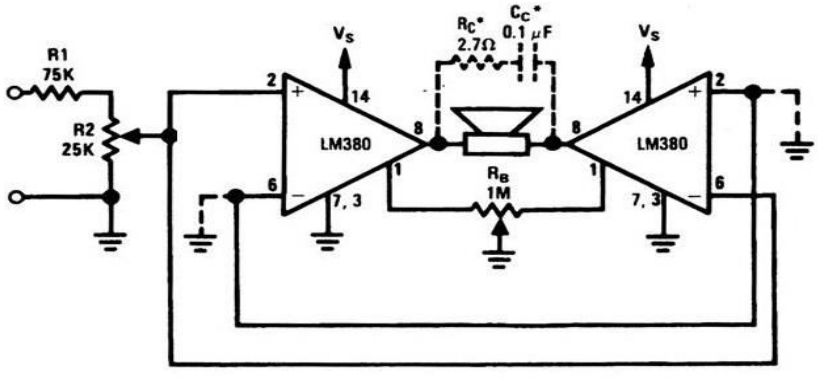








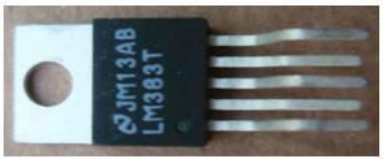




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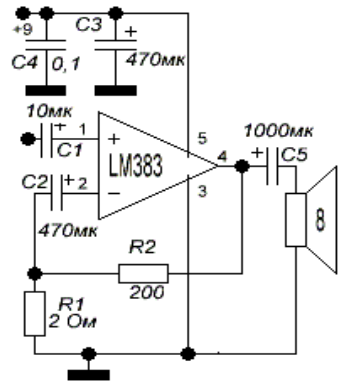
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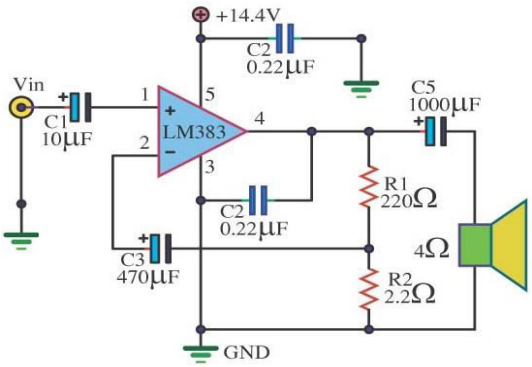
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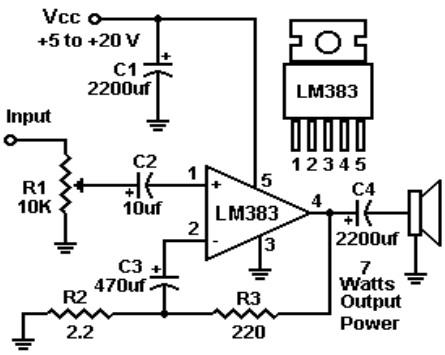


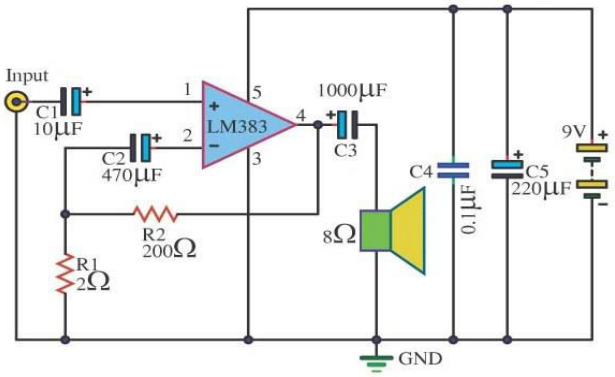
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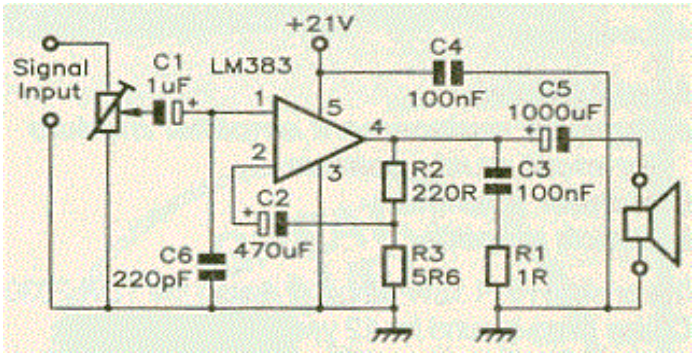
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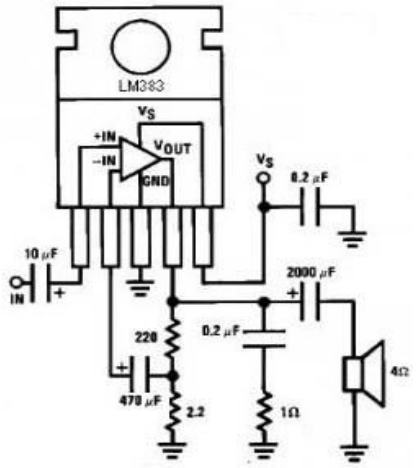


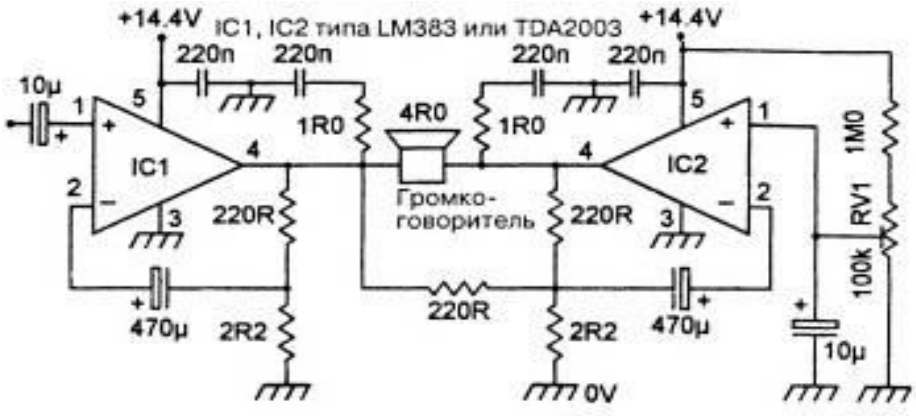












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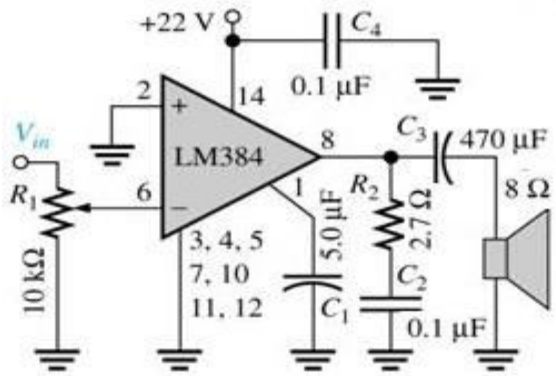
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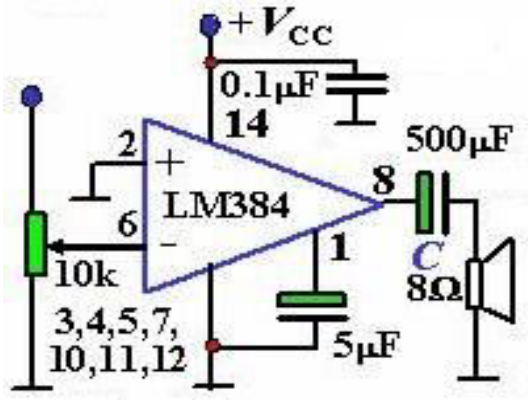
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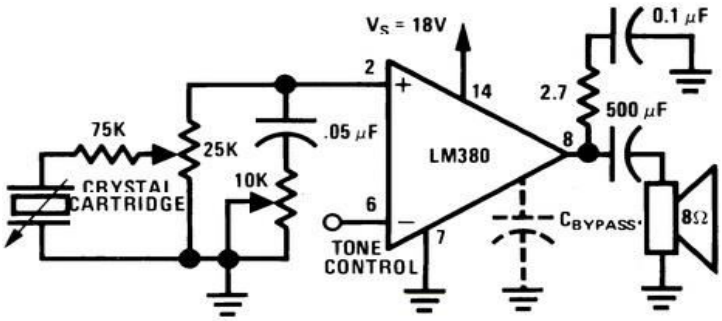


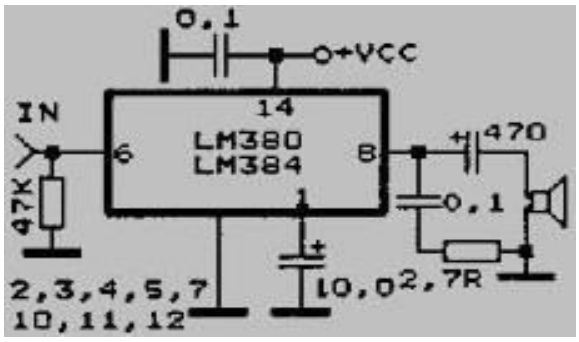
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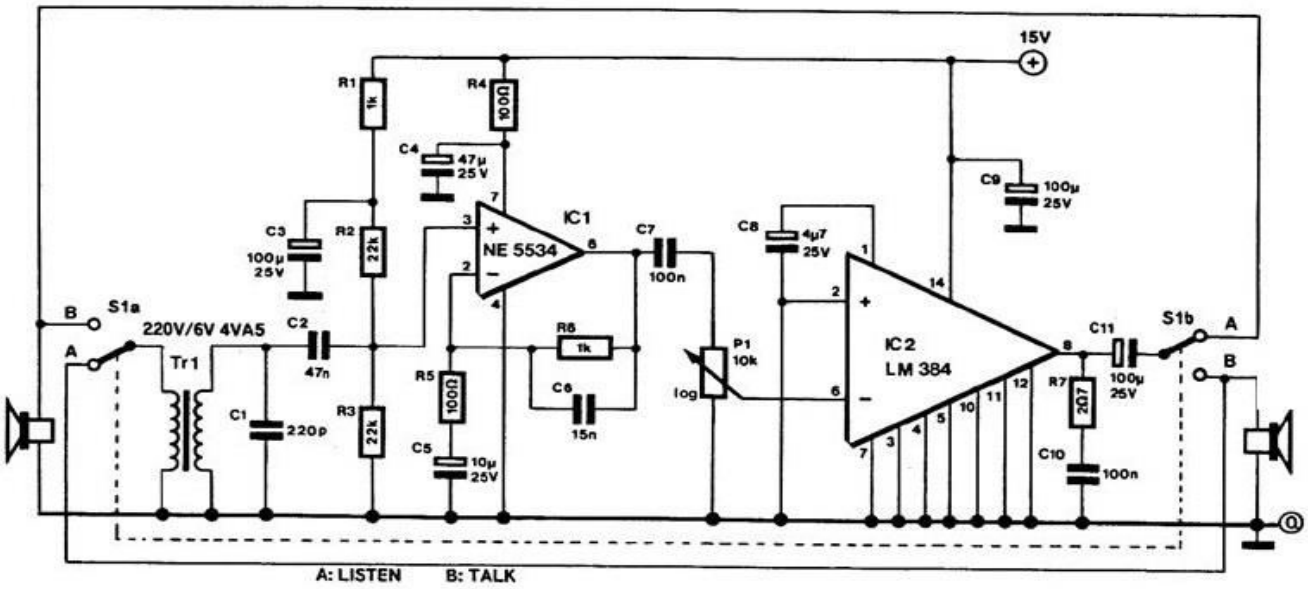
ÇEŞİTLİ DEVRE ŞEMALARI











LM386N-1 / -2 / -3 / -4 / M-1

1 WATT

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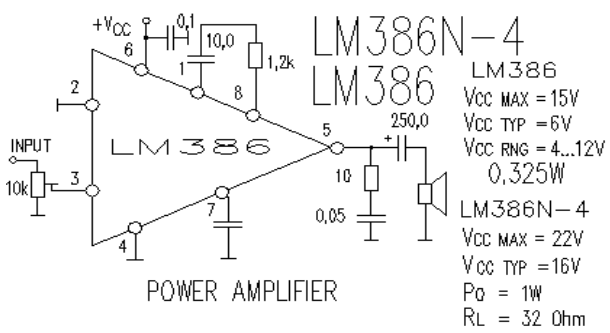


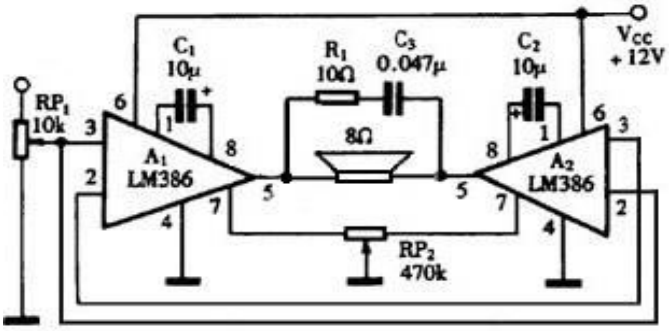


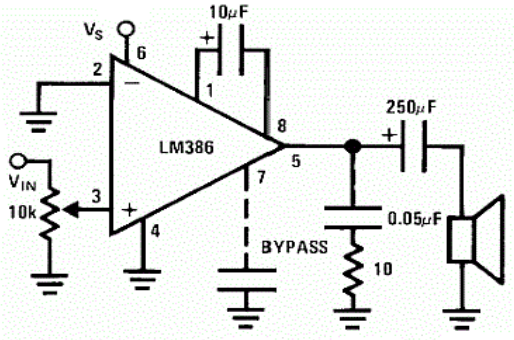
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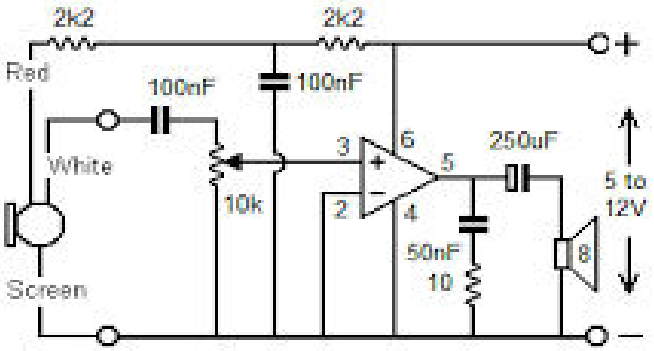
6 VOLT	**RL= 8 OHM**	**250 - 325 mW**
9 VOLT	**RL= 8 OHM**	**500 - 700 mW**
16 VOLT	**RL= 32 OHM**	**700 - 1000 mW**

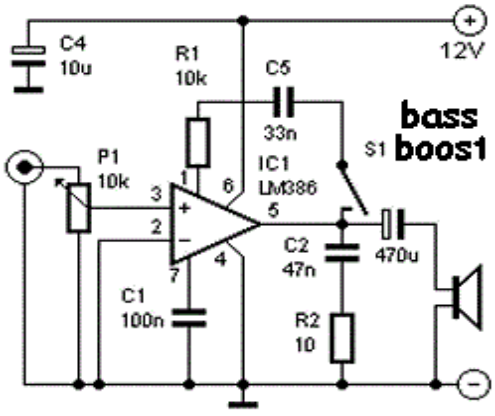
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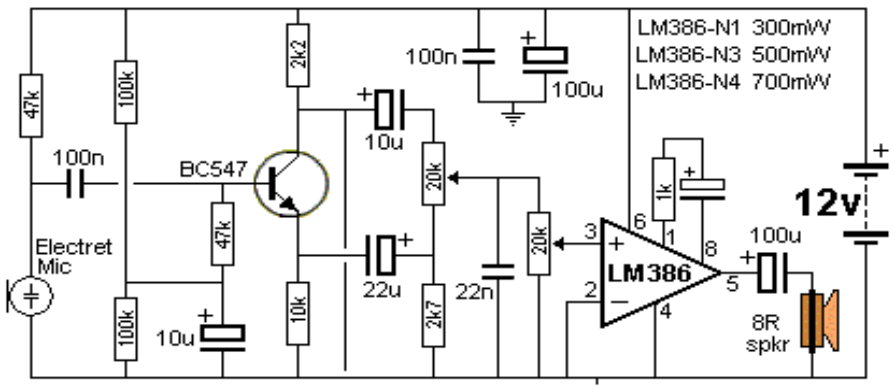


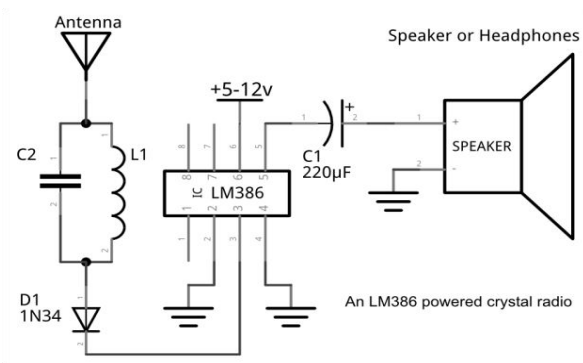


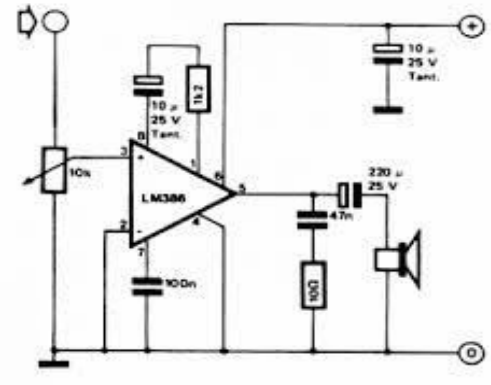












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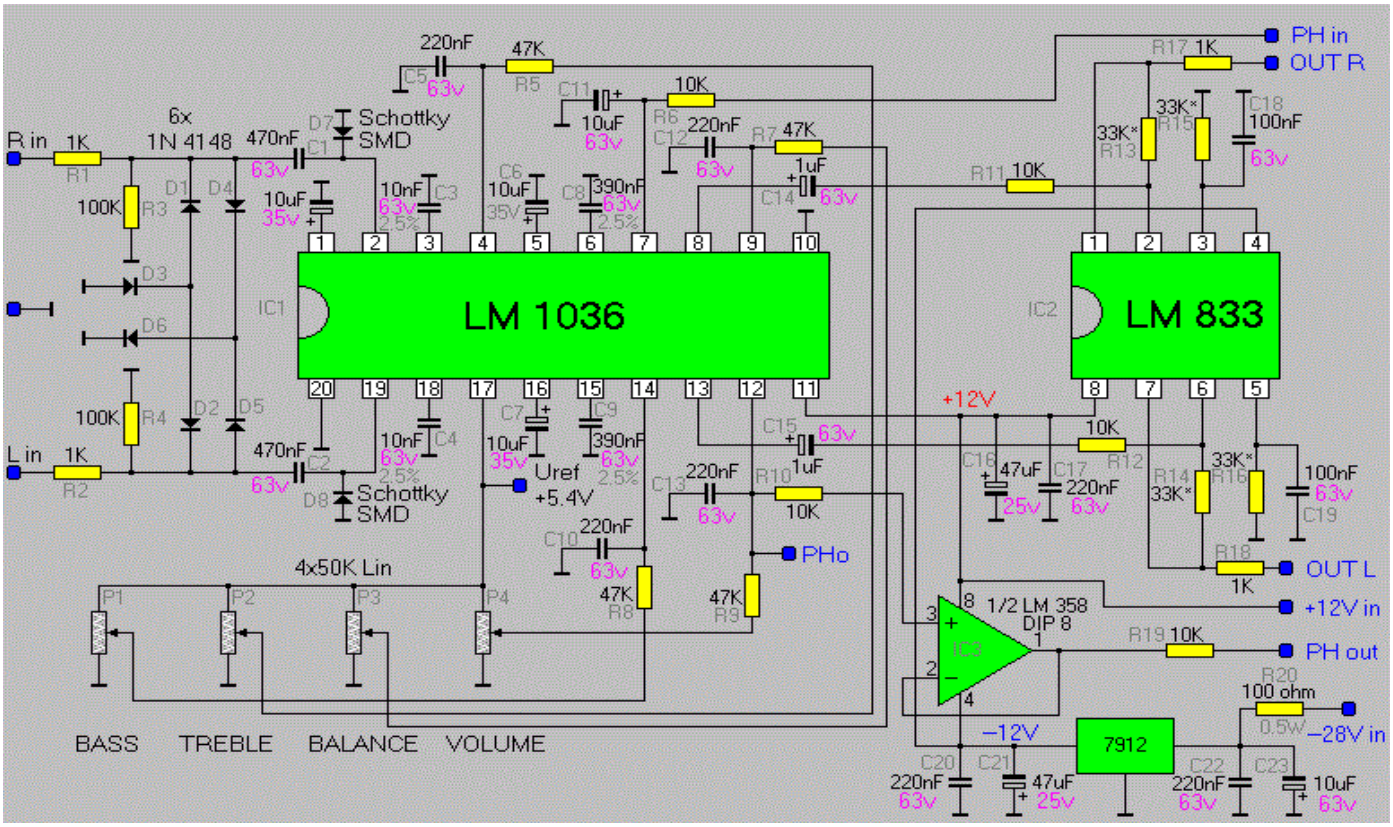
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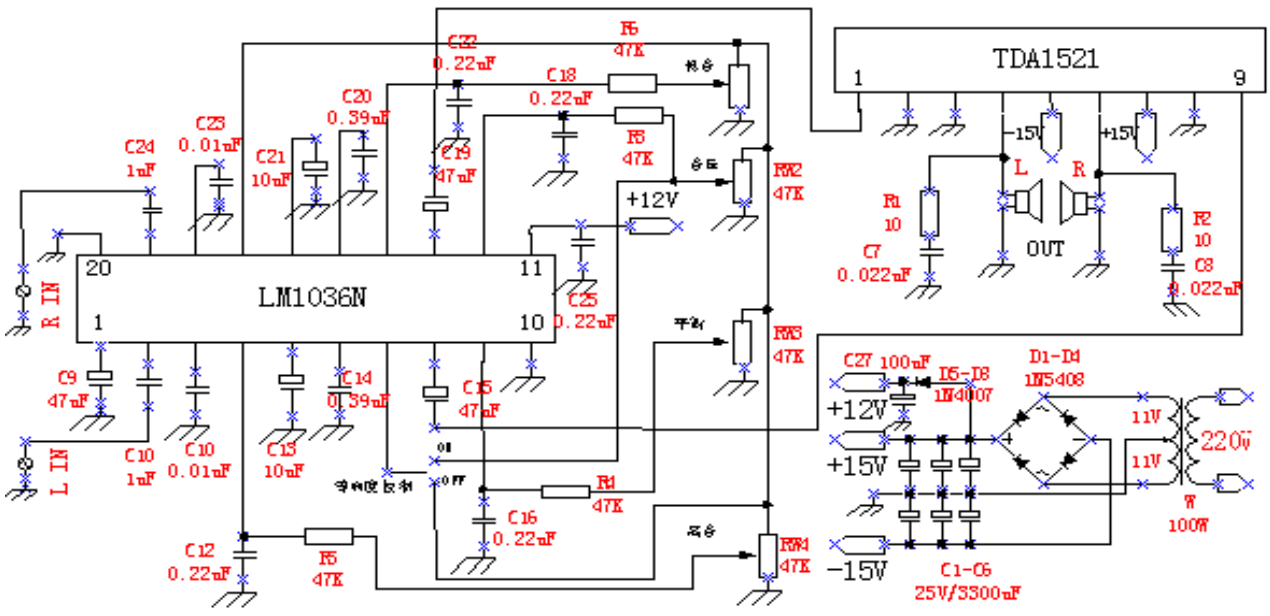
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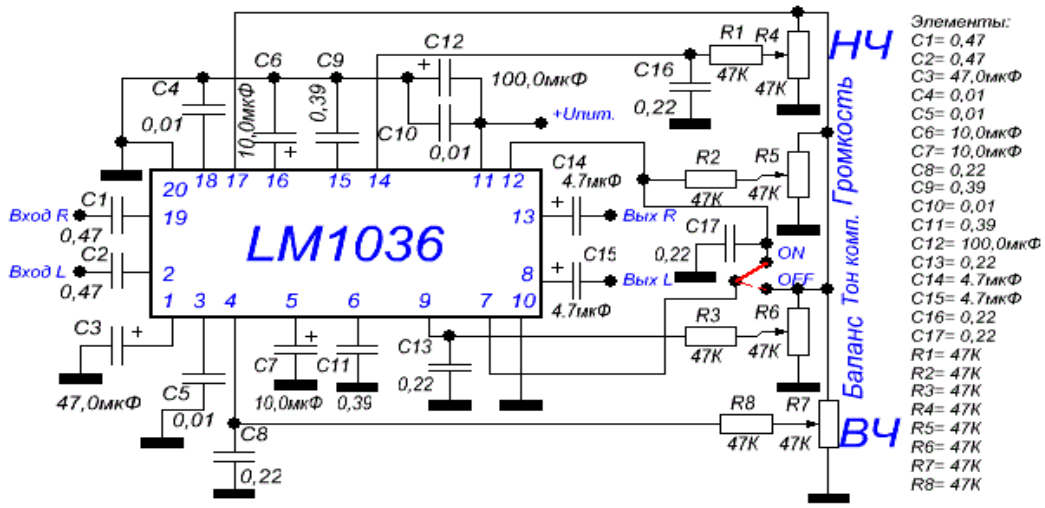


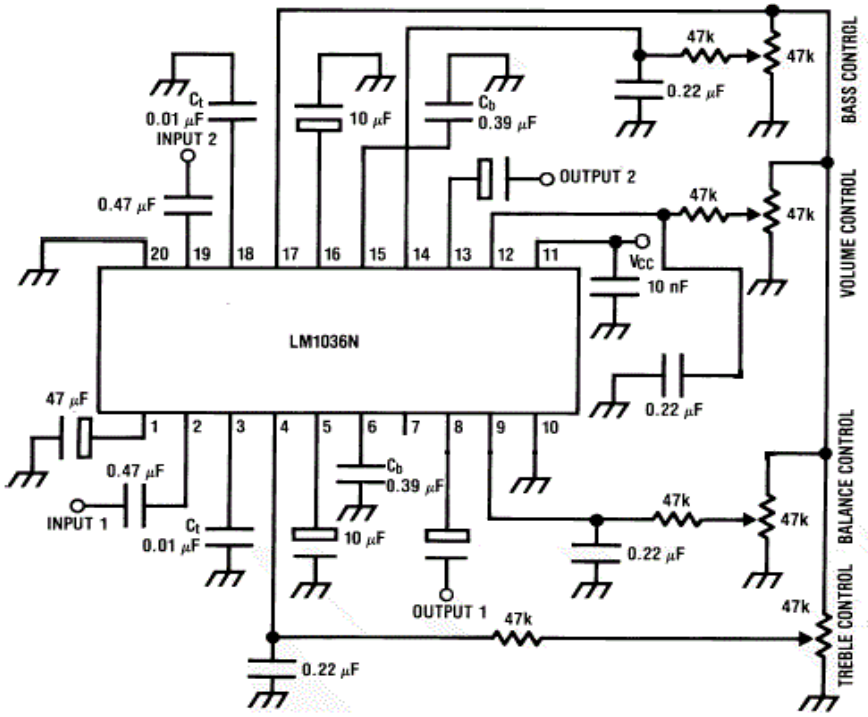
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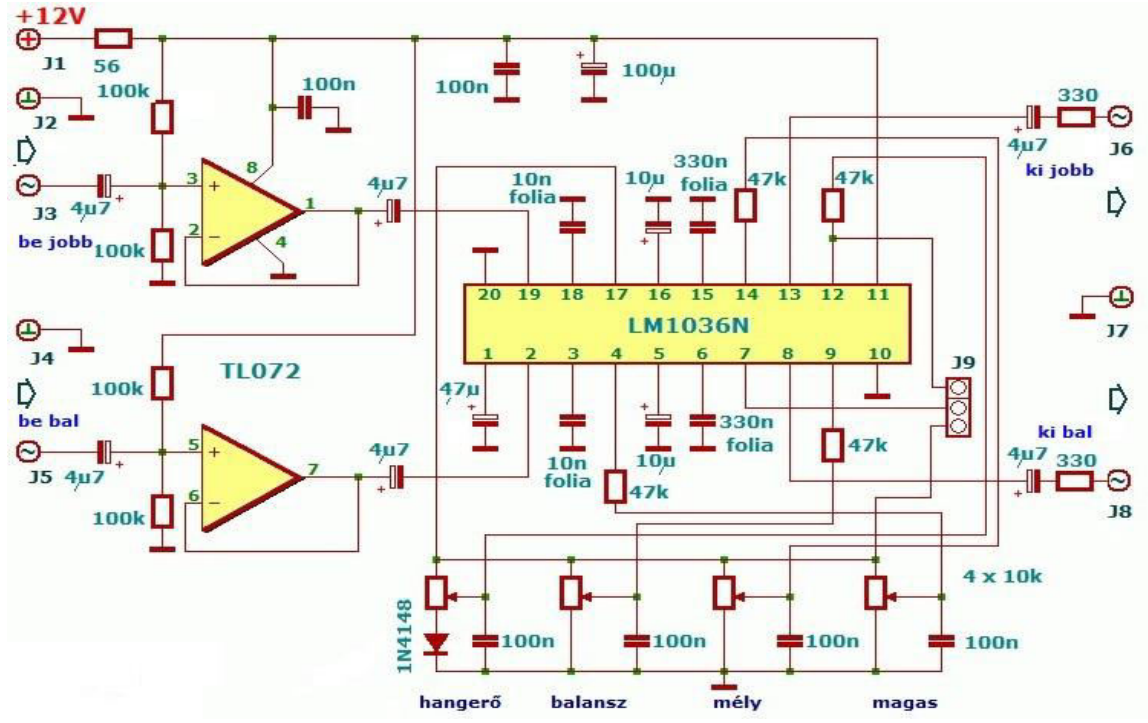
ÇEŞİTLİ DEVRE ŞEMALARI






LM1036
НЧ
ВЧ
Баланс Тон комп. Громкость
Вход R
Вход L
Вых R
Вых L
ON
OFF
+Uпит.
100,0мкФ
47,0мкФ
10,0мкФ
4.7мкФ
47K
0,47
0,22
0,39
0,01
Элементы:
C1= 0,47
C2= 0,47
C3= 47,0мкФ
C4= 0,01
C5= 0,01
C6= 10,0мкФ
C7= 10,0мкФ
C8= 0,22
C9= 0,39
C10= 0,01
C11= 0,39
C12= 100,0мкФ
C13= 0,22
C14= 4.7мкФ
C15= 4.7мкФ
C16= 0,22
C17= 0,22
R1= 47K
R2= 47K
R3= 47K
R4= 47K
R5= 47K
R6= 47K
R7= 47K
R8= 47K


LM1036N
INPUT 1
INPUT 2
OUTPUT 1
OUTPUT 2
BASS CONTROL
VOLUME CONTROL
BALANCE CONTROL
TREBLE CONTROL
47k
0.22 µF
0.47 µF
0.01 µF
0.39 µF
10 µF
47 µF
10 nF
Vcc


+12V
LM1036N
TL072
be jobb
be bal
ki jobb
ki bal
hangerő
balansz
mély
magas
4 x 10k
1N4148
100k
100n
100µ
4µ7
10n folia
330n folia
47µ
10µ
330
47k

LM1040

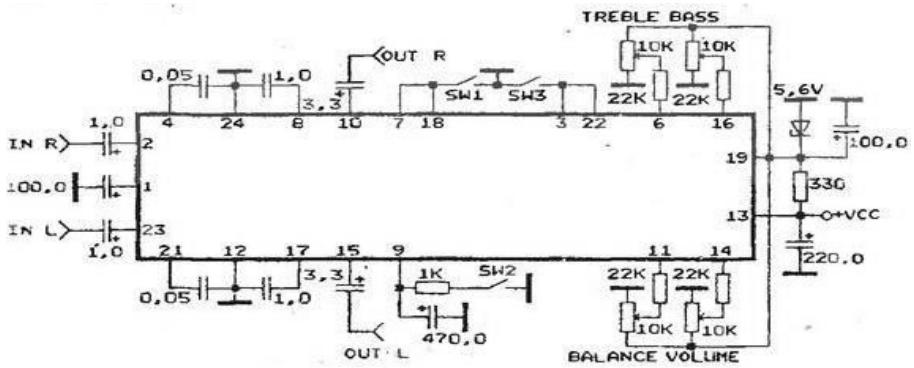
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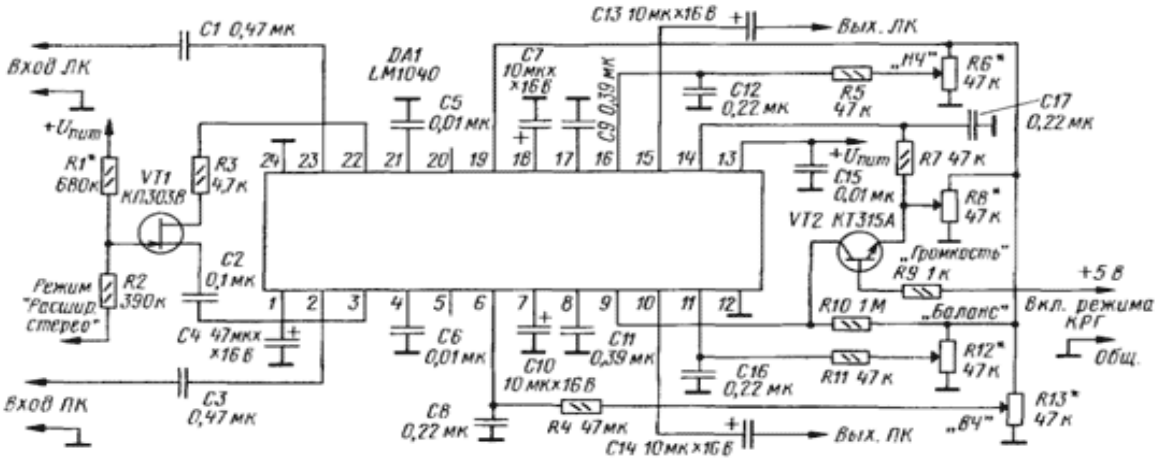
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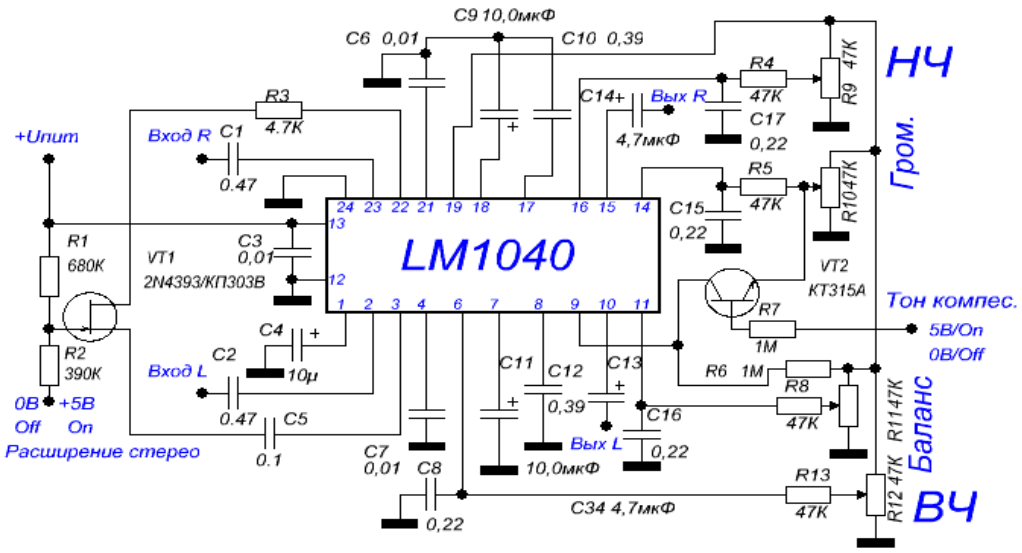


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ÇEŞİTLİ DEVRE ŞEMALARI



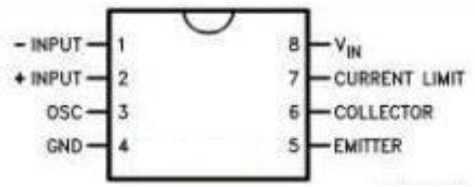


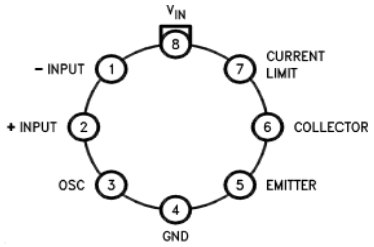


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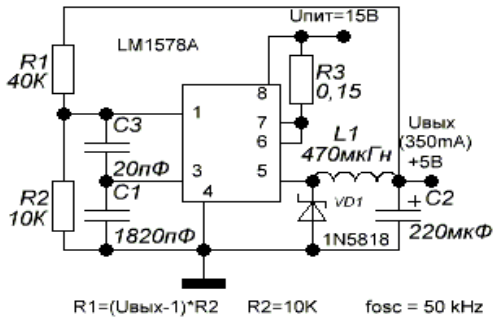
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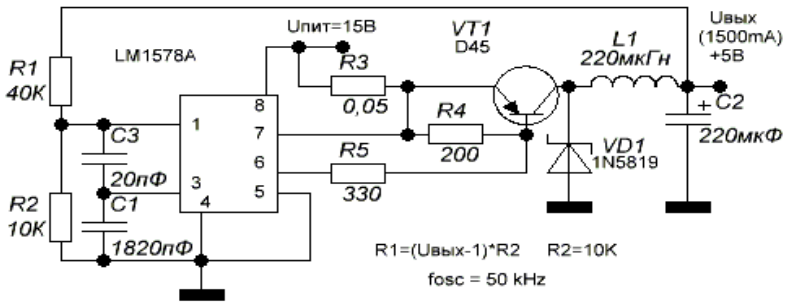
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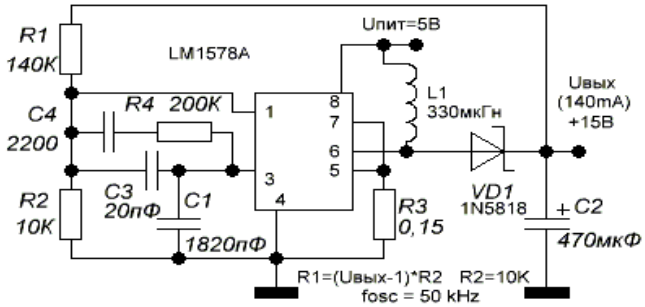


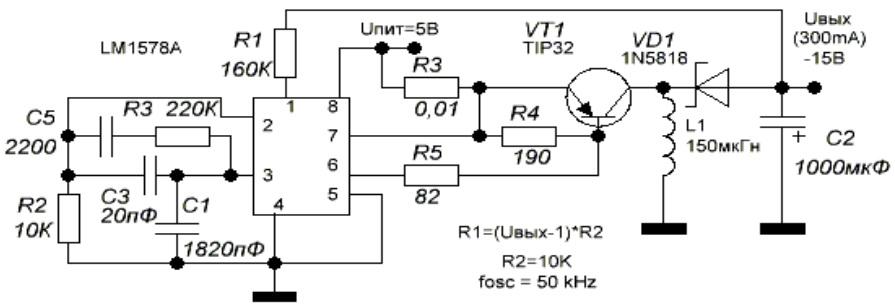


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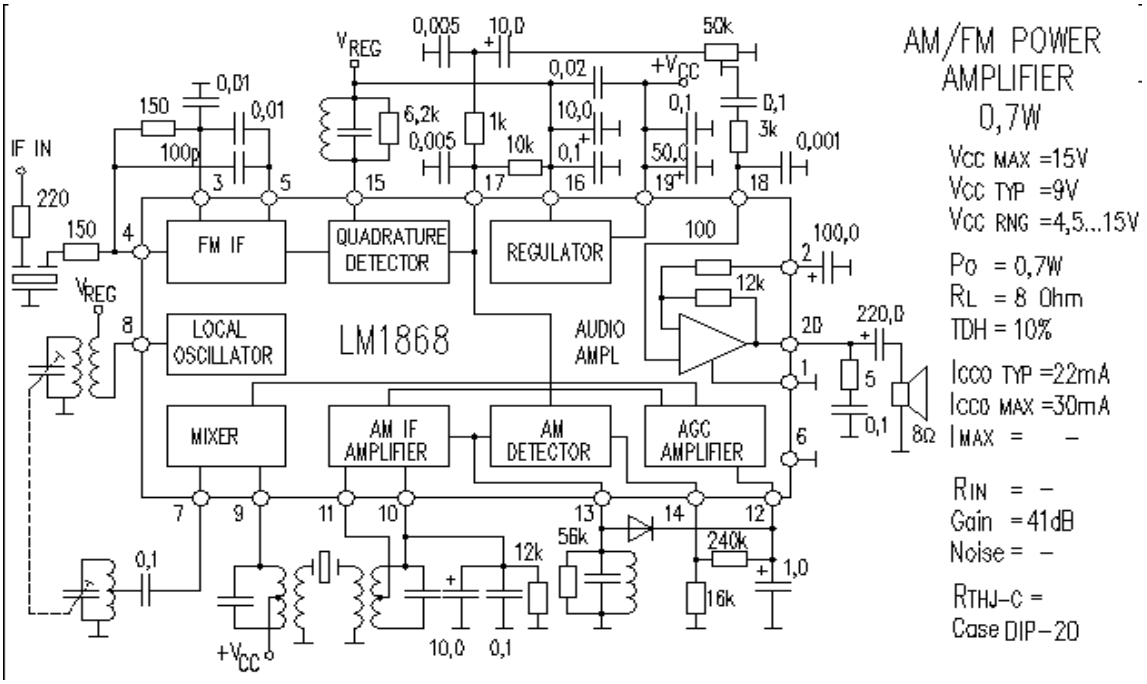
LM1868

AM / FM IF AMP. VE
0.7 WATT AMPLİFİKATÖR



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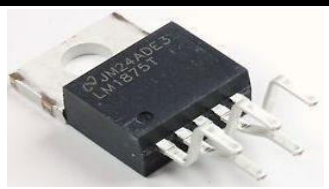
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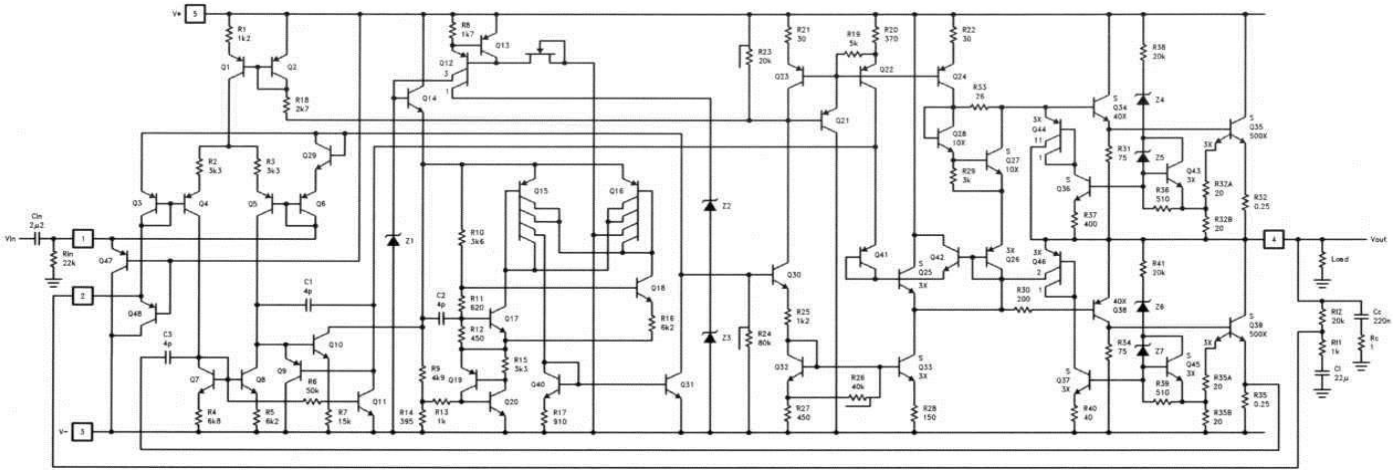
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20 WATT

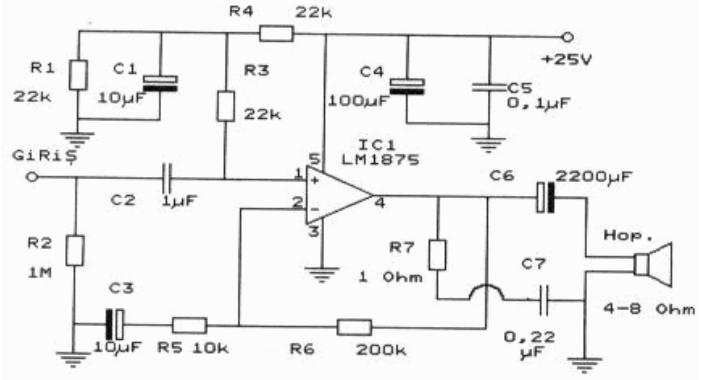
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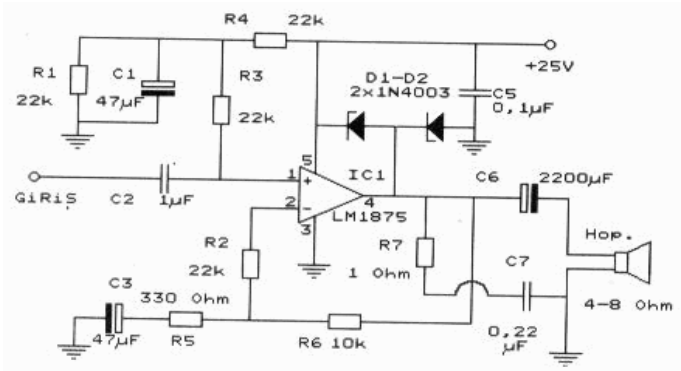


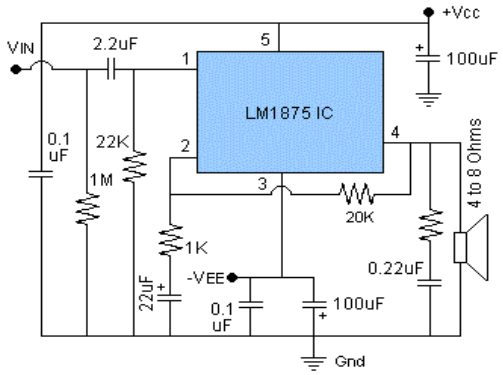
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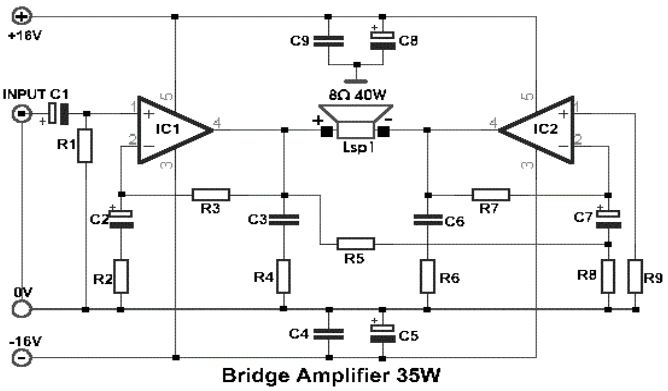


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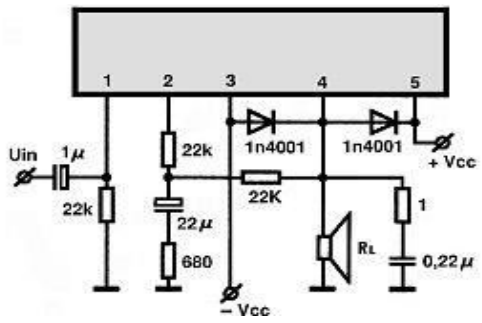


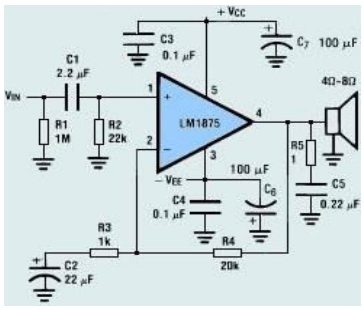


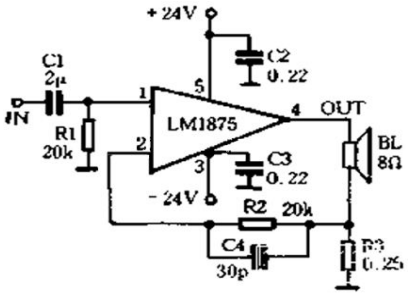




Bridge Amplifier 35W







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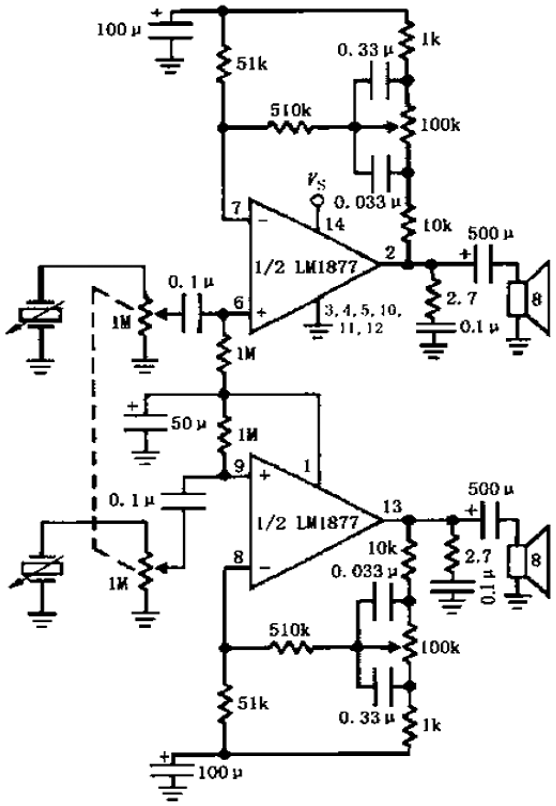
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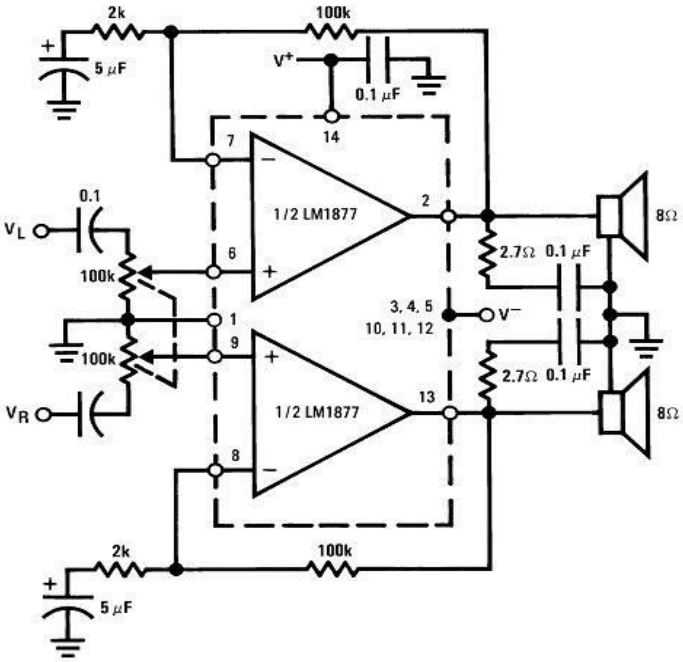
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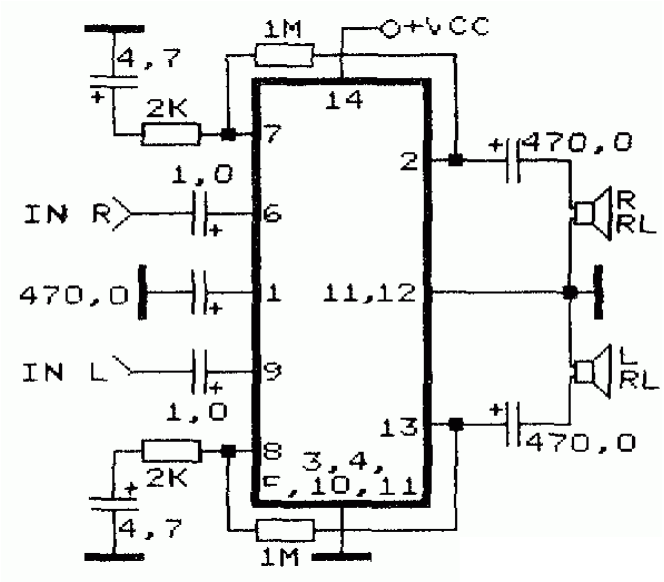


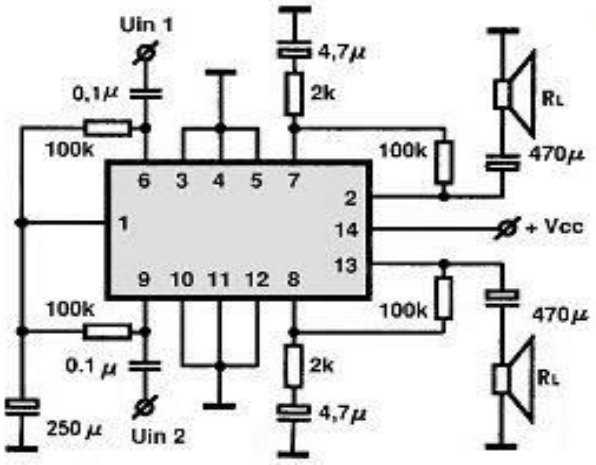
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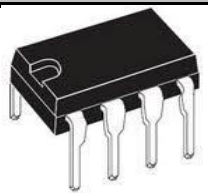




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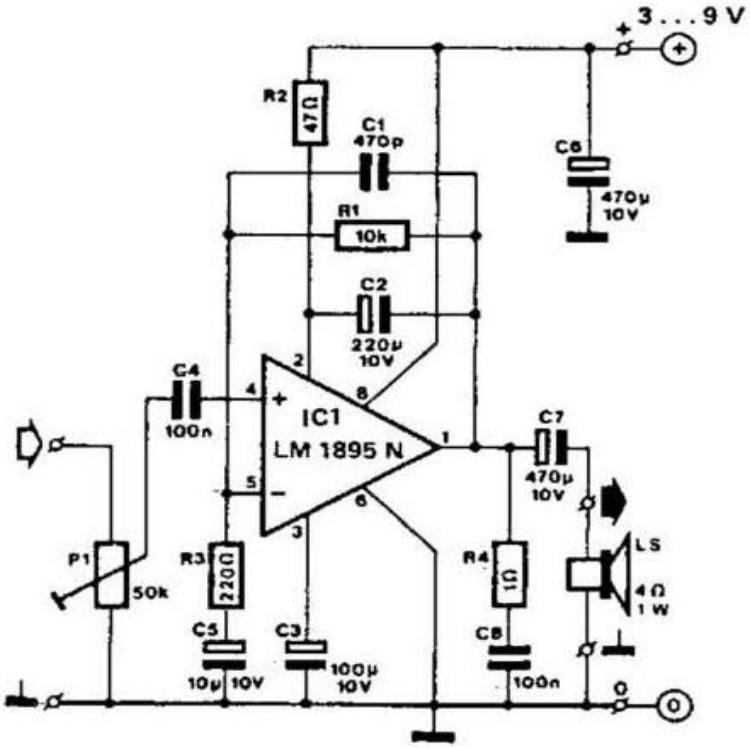
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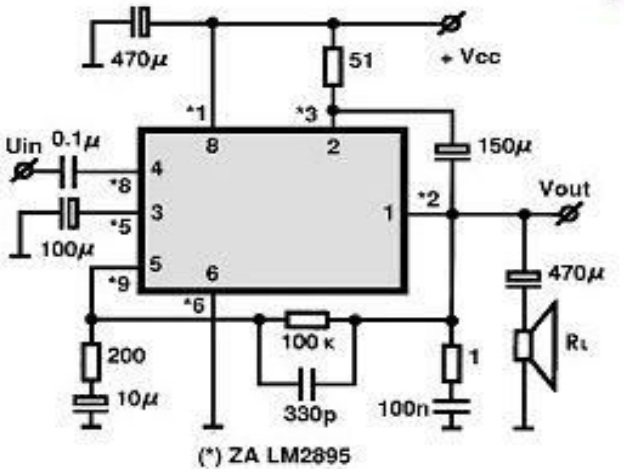
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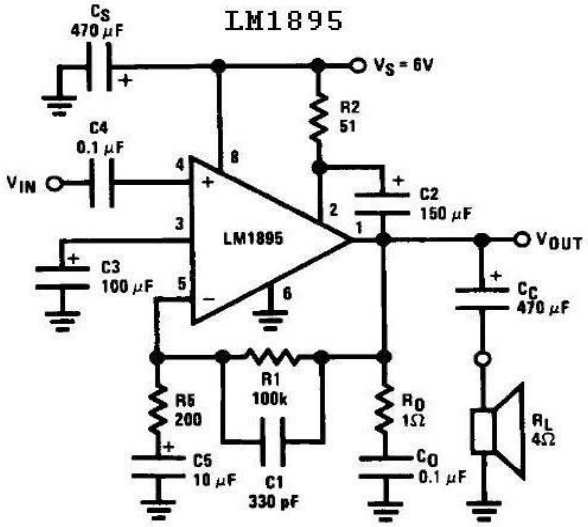


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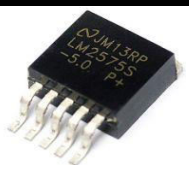


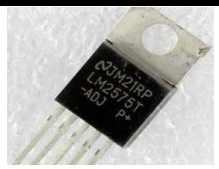


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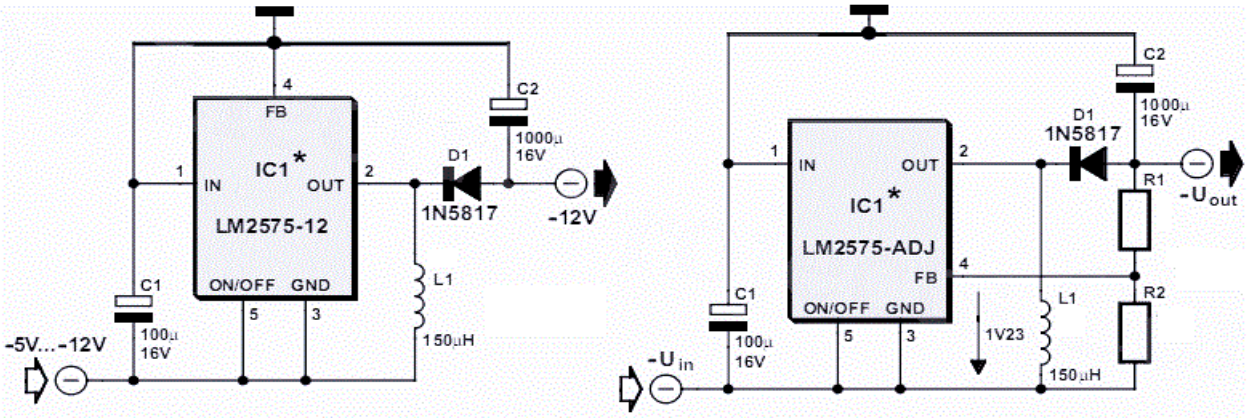
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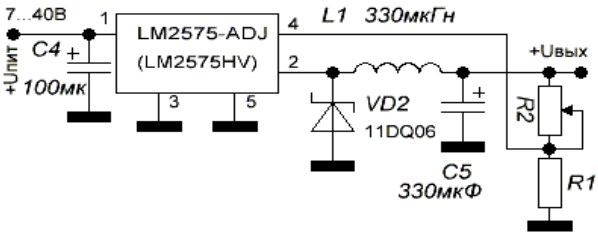


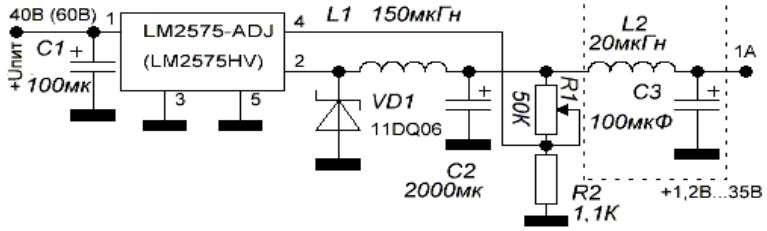


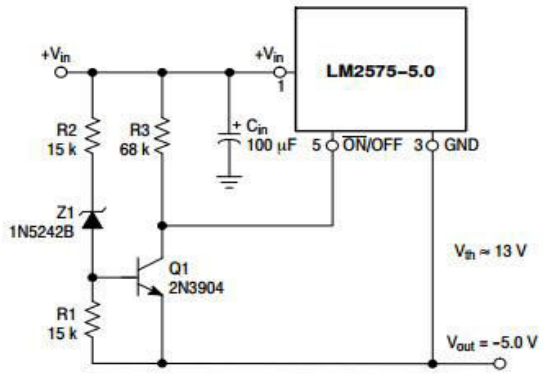
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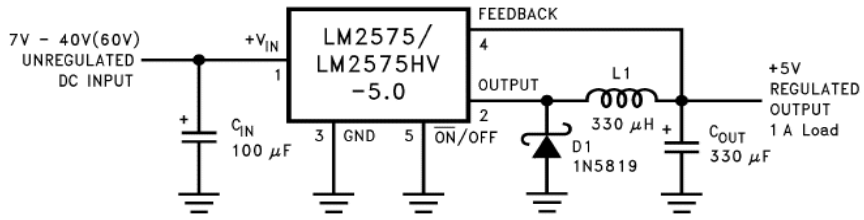
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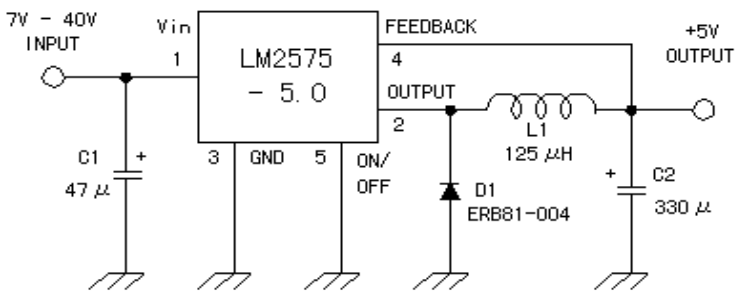








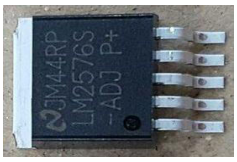




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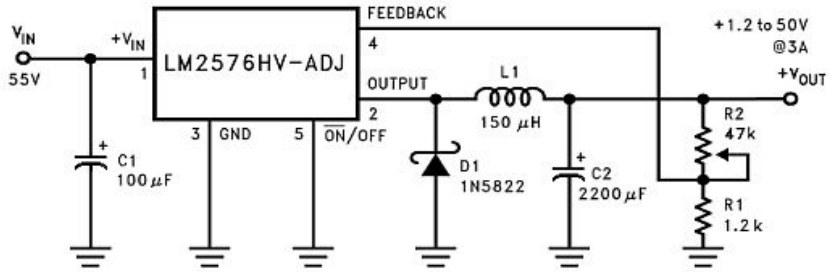
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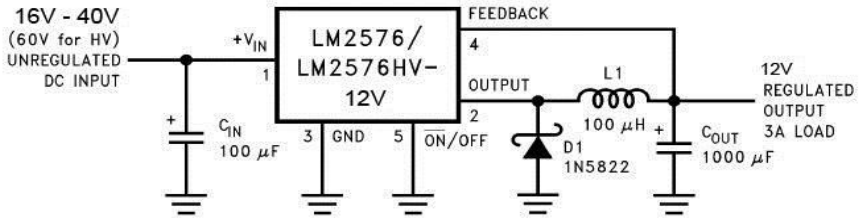


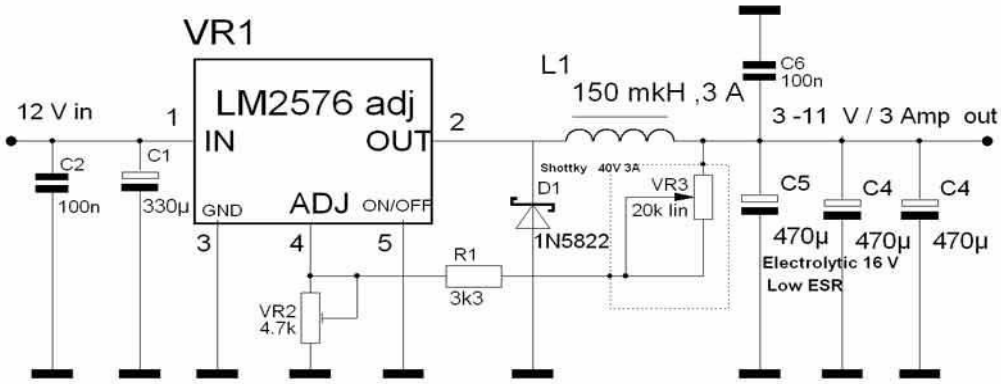


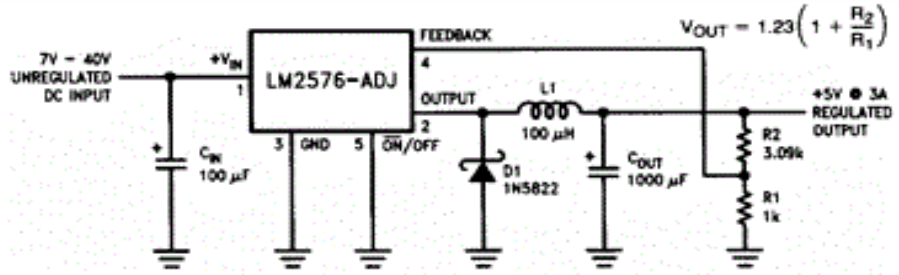
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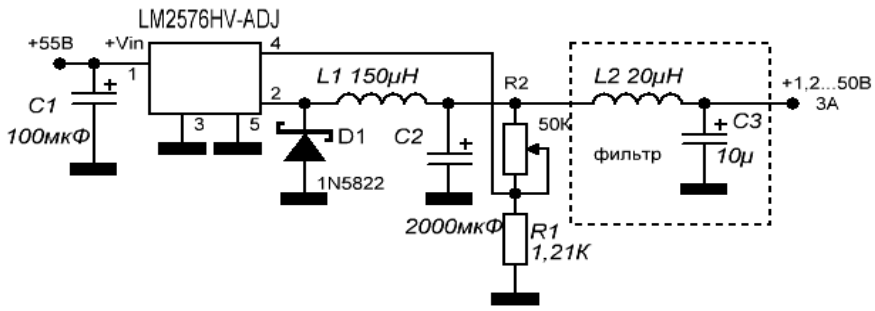
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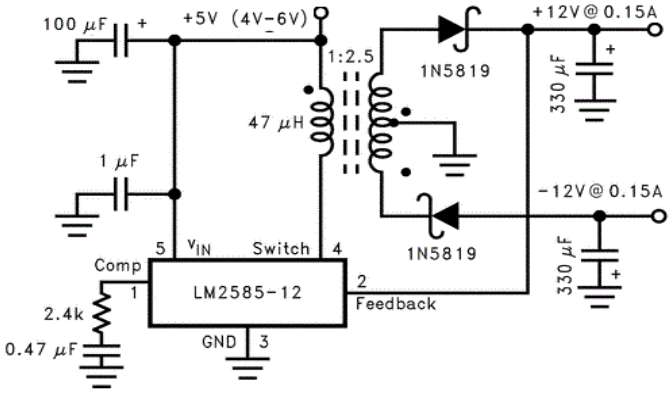
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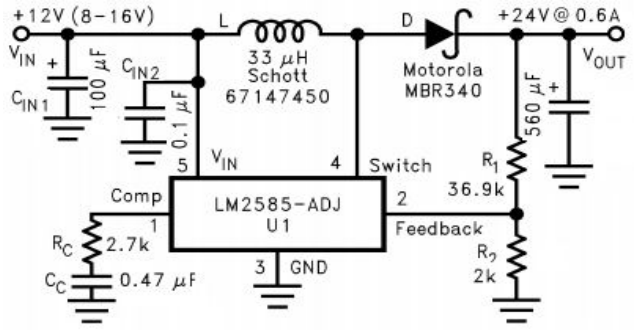


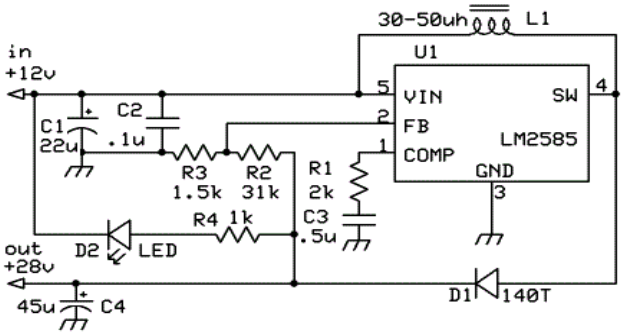


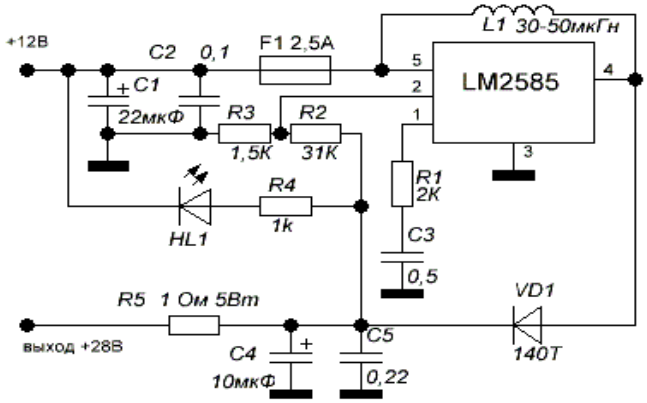
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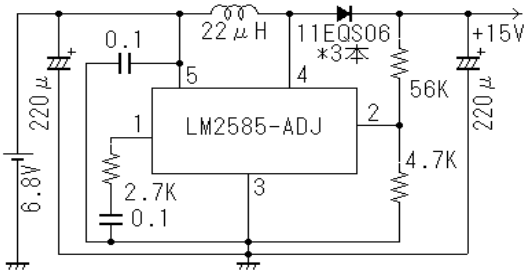
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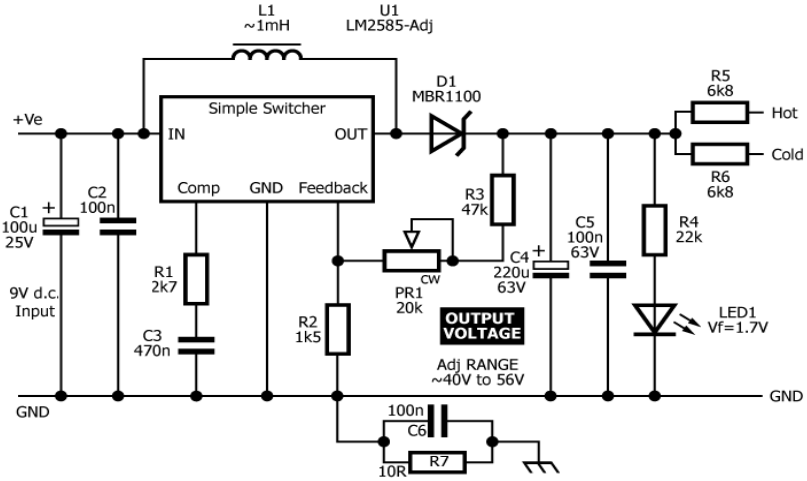


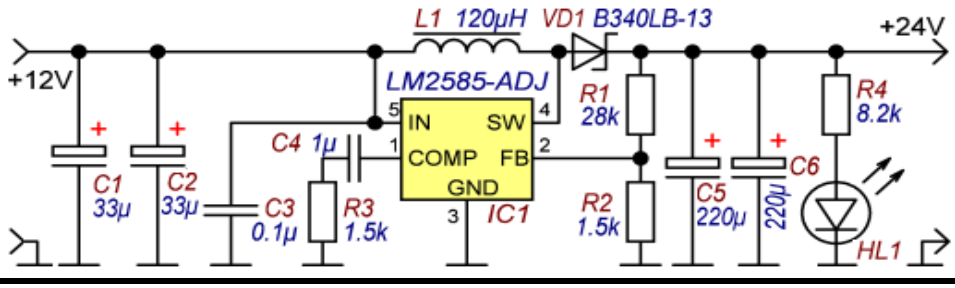






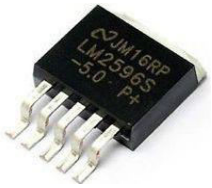


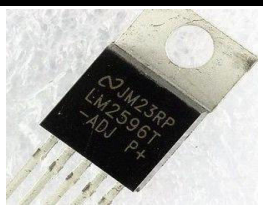




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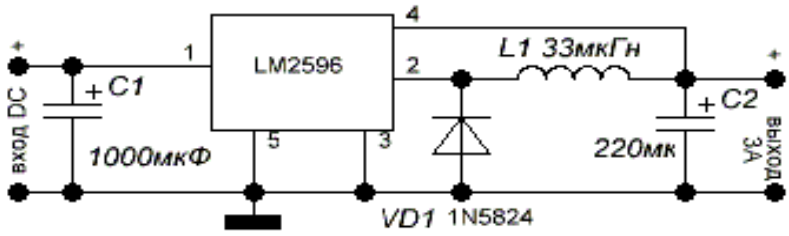
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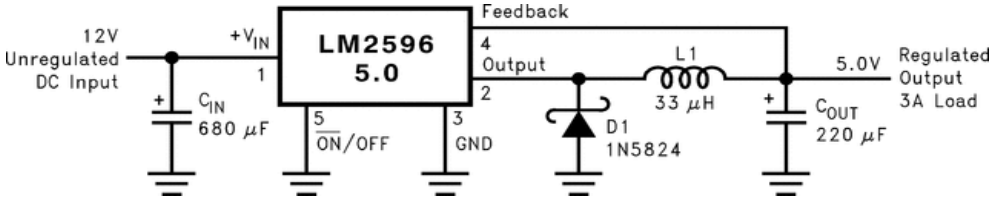


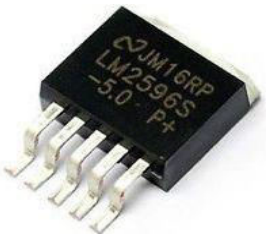


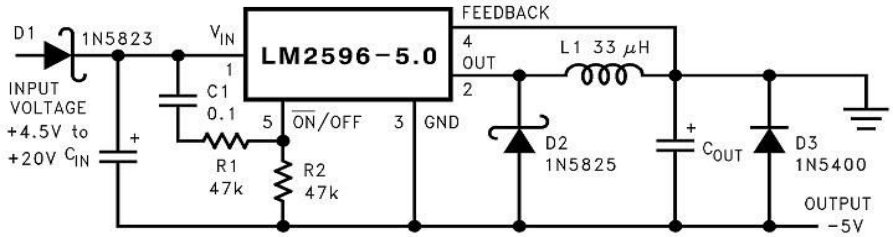
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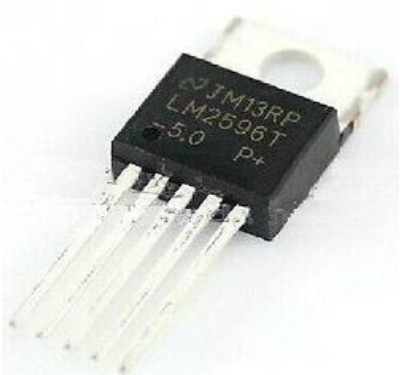
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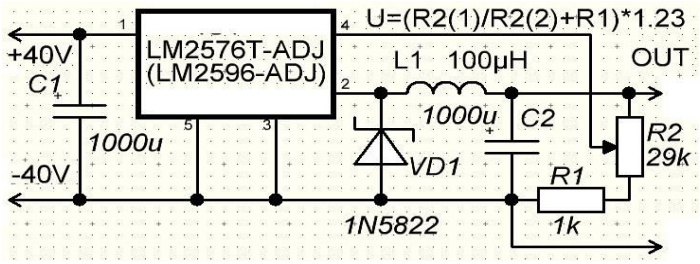


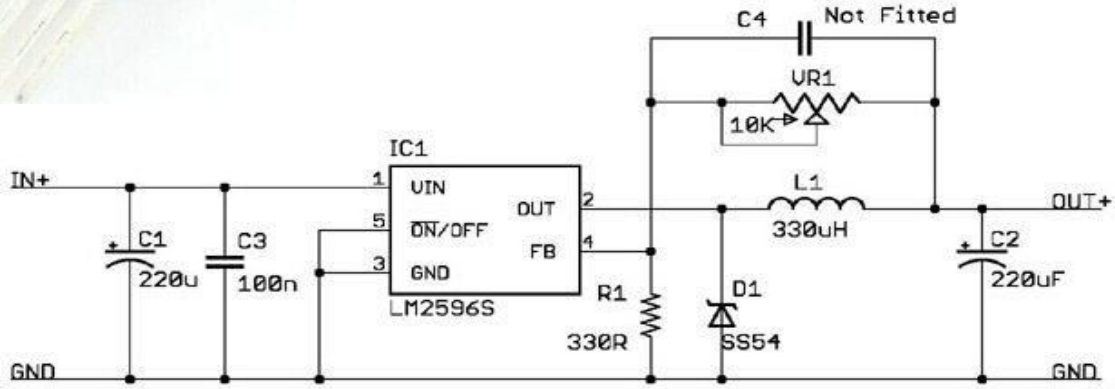












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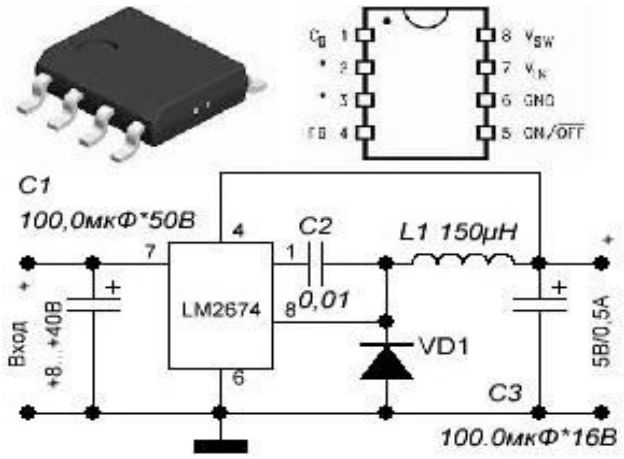
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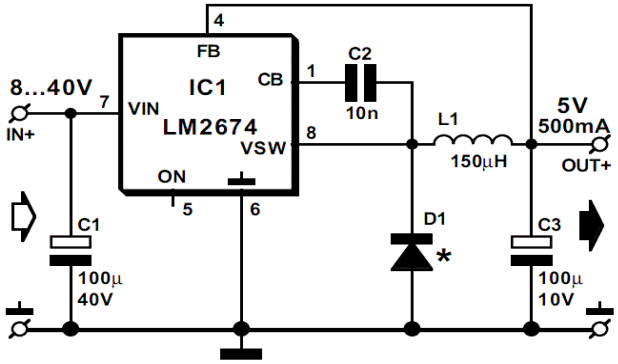
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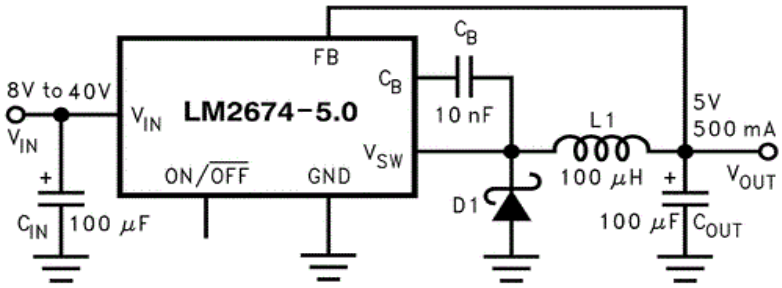


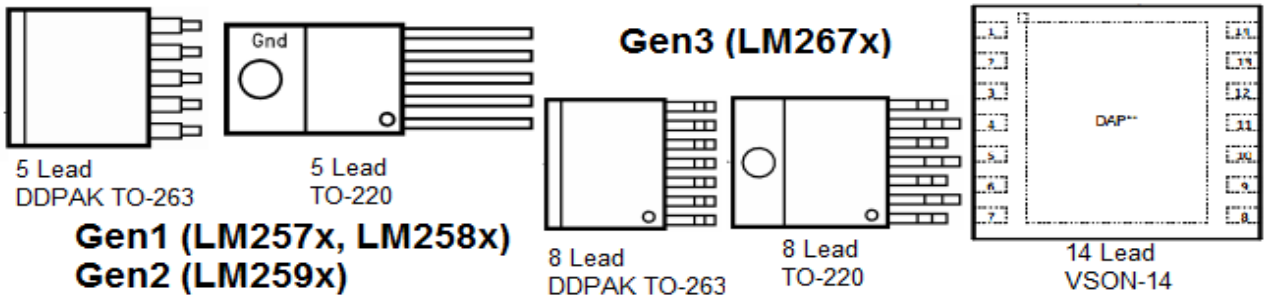
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LM2703

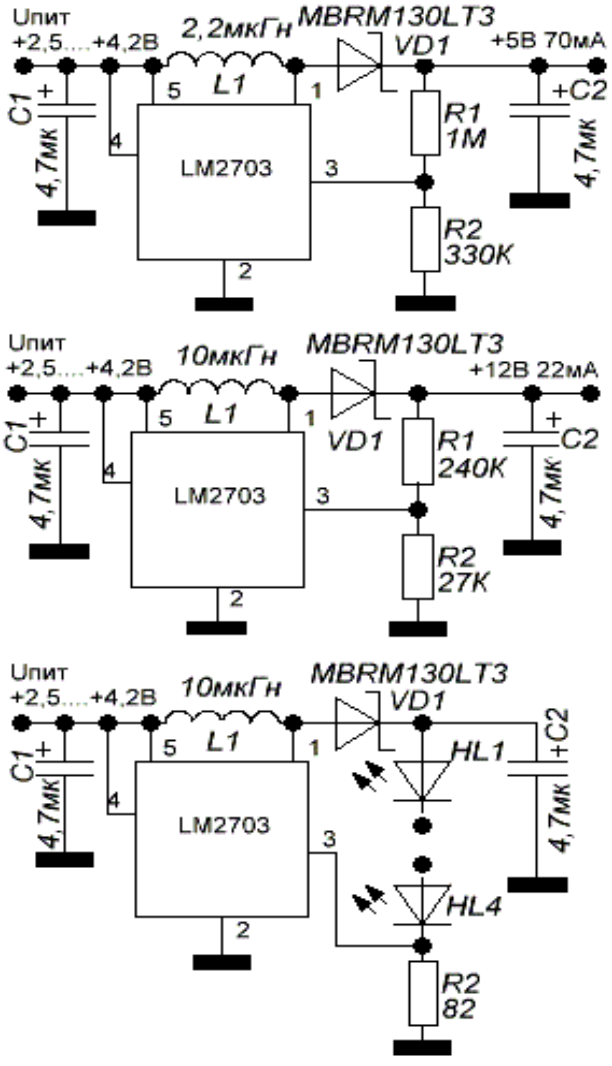
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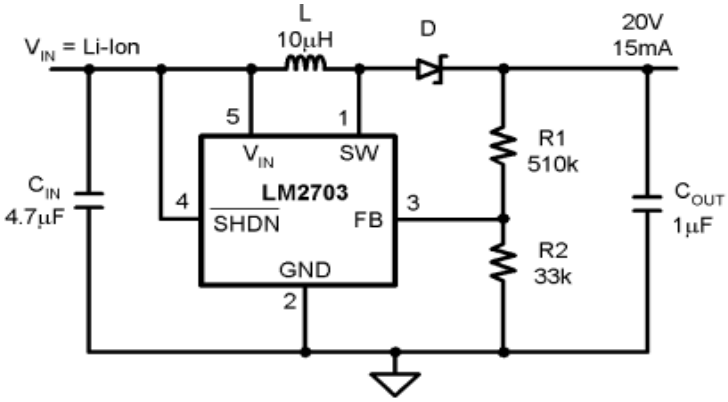
DC / DC KONVERTÖR

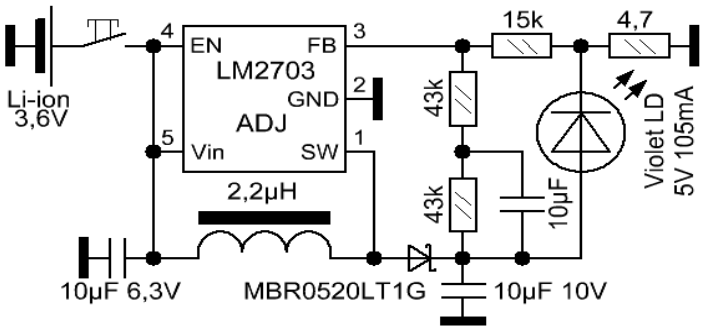


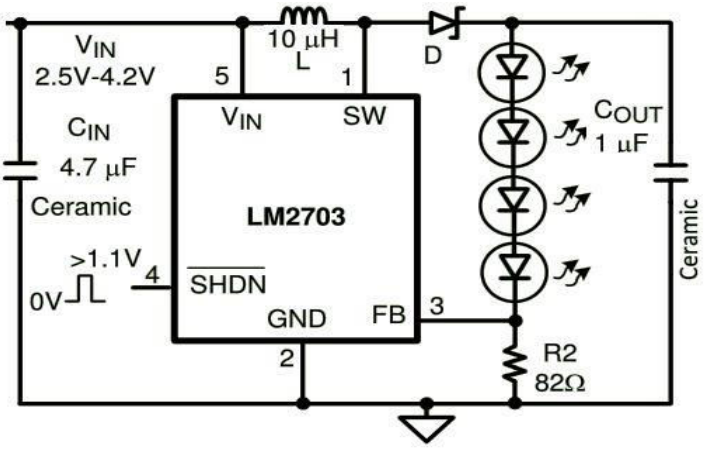
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ÇEŞİTLİ DEVRE ŞEMALARI











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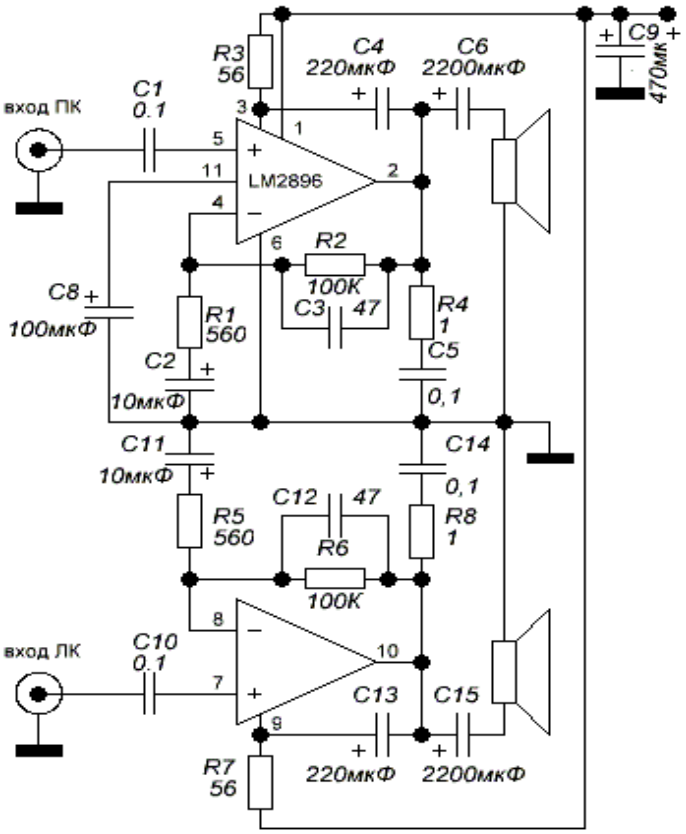
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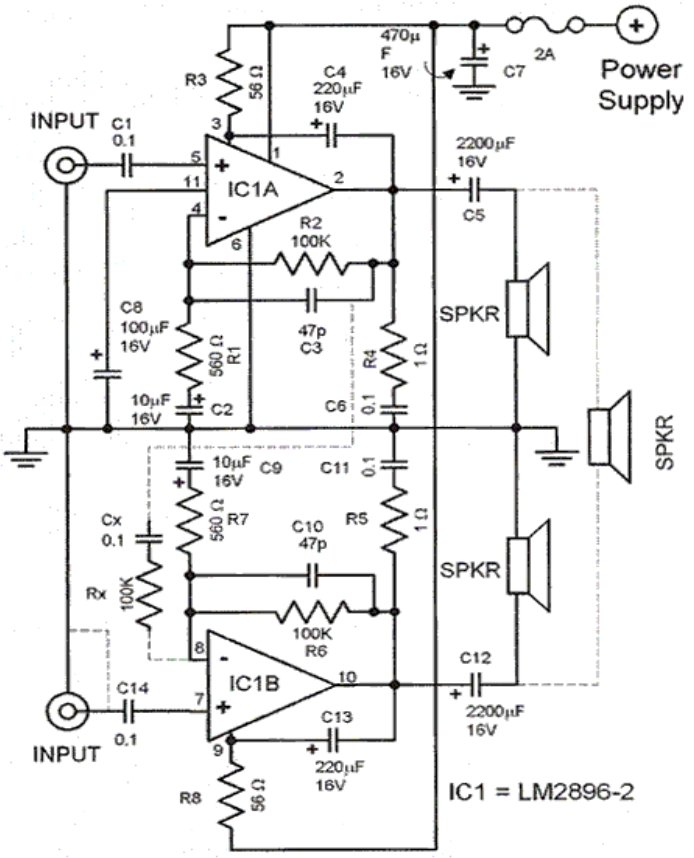
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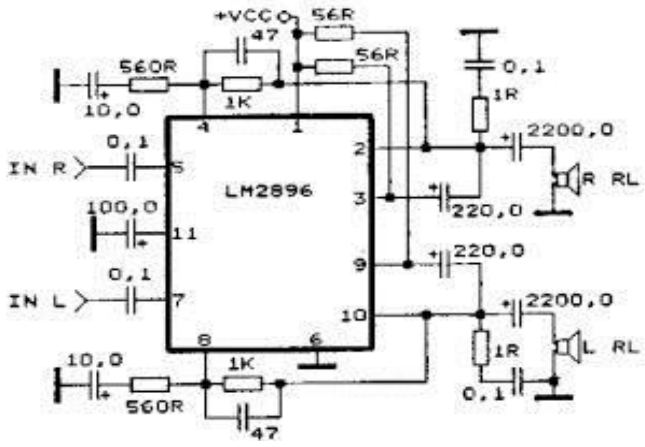


İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI







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1 AMPER

REGÜLATÖR



İÇ YAPISI

ÇEŞİTLİ DEVRE ŞEMALARI

